NCPA
An OMNIA Partners Company

REQUEST FOR PROPOSAL (RFP) FOR
Athletic Surfacing and Asphalt Maintenance

SOLICITATION NUMBER
01-23

PUBLICATION DATE
February 7th, 2023

Competitive Solicitation by
Region 14 Education Service Center
for
Athletic Surfacing and Asphalt Maintenance
on behalf of itself and other Government Agencies
and made available through the
National Cooperative Purchasing Alliance
RFP # 01-23

NOTICE TO RESPONDENT:

Submittal Deadline:
Thursday, March 23rd, 2023 2:00pm CT

Questions regarding this solicitation must be submitted to questions@ncpa.us no later than March 16th, 2023. All questions and answers will be posted to http://www.ncpa.us/solicitations.

It is the intention of Region 14 Education Service Center (herein "Region 14 ESC") to establish a Master Agreement for Athletic Surfacing and Asphalt Maintenance for use by Region 14 ESC and other public agencies supported under this contract. This Request for Proposal is issued on behalf of the National Cooperative Purchasing Alliance through a public agency clause, which provides that any county, city, special district, local government, school district, private K-12 school, higher education institution, state, other government agency, healthcare organization or nonprofit organization may purchase Products and Services through this contract. Respondents will be required to execute the NCPA Administration Agreement upon award.

This contract will allow agencies to purchase on an "as needed" basis from a competitively awarded contract. Respondents are requested to submit their total line of available products and services. While this solicitation specifically covers Athletic Surfacing and Asphalt Maintenance, respondents are encouraged to submit an offering on any or and all products and services available that they currently perform in their normal course of business.

Responses shall be received electronically no later than the submittal deadline via our online Bonfire portal at ncpa.bonfirehub.com

Immediately following the deadline, all responses will be publicly opened and the respondents recorded. Any response received later than the specified deadline will be disqualified.

Responses will remain sealed by our online Bonfire portal until the bid opening time specified. Responses received outside our online Bonfire portal will not be accepted. Sealed responses may be submitted on any or all items, unless stated otherwise.

Proposal may be rejected for failure to comply with the requirements set forth in this invitation.

INTRODUCTION/SCOPE

Region 14 ESC on behalf of itself and all states, local governments, school districts, and higher education institutions in the United States of America, and other government agencies and non-profit organizations (herein "Public Agency" or collectively "Public Agencies") is soliciting proposals from qualified vendors to enter into a Master Agreement for a complete line of Athletic Surfacing and Maintenance.

Region 14 ESC, as the lead public agency, has partnered with NCPA to make the resultant contract available to all participating agencies in the United States. NCPA provides marketing and administrative support for the awarded vendor that promotes the successful vendor's products and services to Public Agencies nationwide. The Vendor will execute the NCPA Administration Agreement (Tab 2) upon award. Vendor should thoroughly review all documents and note any exceptions to NCPA terms and conditions in their proposal.

Awarded vendor(s) shall perform covered product or services under the terms of this agreement. Respondents shall provide pricing based on a discount from their standard pricing schedules for products and/or services offered. Electronic Catalog and/or price lists must accompany the proposal. Multiple percentage discount structure is also acceptable. Please specify where different percentage discounts apply. Additional pricing and/or discounts may be included.

Each product or service proposed is to be priced separately with all ineligible items identified. Services may be awarded to multiple vendors. Respondents may elect to limit their proposals to a single product or service within any category, or multiple products or services within any and all categories.

The National Cooperative Purchasing Alliance (herein "NCPA") assists public agencies to increase their efficiency and reduce their costs when procuring goods and services. This is accomplished by awarding competitively solicited contracts that are leveraged nationally by combining the volumes and purchasing power of entities nationwide. Our contracts are available for use by any entity that complies with procurement laws and regulations.

It is the intention of Region 14 ESC and NCPA to achieve the following objectives through this RFP.

- Provide a comprehensive competitively solicited Master Agreement offering Products and Services to Public Agencies;
- Achieve cost savings of Vendors and Public Agencies through a single competitive solicitation process that eliminates the need for multiple proposals;
- Combine the purchasing power of Public Agencies to achieve cost effective pricing;
- Reduce the administrative and overhead costs of Vendors and Public Agencies through state of the art purchasing procedures.

INSTRUCTIONS TO RESPONDENTS

Submission of Response

- Only responses received via our online Bonfire portal will be accepted. Faxed or mailed responses will not be accepted.
- Responses may be submitted on any or all items, unless stated otherwise. Region 14 ESC reserves the right to reject or accept any response.
- Deviations to the terms, conditions and/or specifications shall be conspicuously noted in writing by the respondent and shall be included with the response.
- Withdrawal of response will not be allowed for a period of 120 days following the opening. Pricing will remain firm for 120 days from submittal.

Public Bid Opening

The public bid opening will be held via Zoom meeting. Interested parties who wish to attend the bid opening should email contracts@ncpa.us by 4:00 pm the day before the bid opening date to receive an invitation.

Required Proposal Format

Responses shall be provided electronically via our online Bonfire portal. Tabs should be used to separate the proposal into sections, as identified below. Respondents failing to organize in the manner listed may be considered non-responsive and may not be evaluated. It's recommended that all tabs, with the exception of Tab 7 (Pricing), be submitted in Portable Document Format (PDF). Please note pricing can be submitted separately in a alternate format (e.g. xlsx, xls, csv).

Tabs

Tab 1 – Master Agreement / Signature Form
Tab 2 – NCPA Administration Agreement
Tab 3 – Vendor Questionnaire
Tab 4 – Vendor Profile
Tab 5 – Products and Services / Scope
Tab 6 – References
Tab 7 – Pricing
Tab 8 – Value Added Products and Services
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TAB 1
MASTER AGREEMENT - GENERAL TERMS AND CONDITIONS

Customer Support
The vendor shall provide timely and accurate technical advice and sales support. The vendor shall respond to such requests within one (1) working day after receipt of the request.

Disclosures
Respondent affirms that he/she has not given, offered to give, nor intends to give at any time hereafter any economic opportunity, future employment, gift, loan, gratuity, special discount, trip, favor or service to a public servant in connection with this contract.

The respondent affirms that, to the best of his/her knowledge, the offer has been arrived at independently, and is submitted without collusion with anyone to obtain information or gain any favoritism that would in any way limit competition or give an unfair advantage over other vendors in the award of this contract.

Renewal of Contract
Unless otherwise stated, all contracts are for a period of three (3) years with an option to renew for up to two (2) additional one-year terms or any combination of time equally not more than 2 years if agreed to by Region 14 ESC and the vendor.

Funding Out Clause
Any/all contracts exceeding one (1) year shall include a standard "funding out" clause. A contract for the acquisition, including lease, of real or personal property is a commitment of the entity's current revenue only, provided the contract contains either or both of the following provisions:

Retains to the entity the continuing right to terminate the contract at the expiration of each budget period during the term of the contract and is conditioned on a best efforts attempt by the entity to obtain appropriate funds for payment of the contract.

Shipments (if applicable)
The awarded vendor shall ship ordered products within seven (7) working days for goods available and within four (4) to six (6) weeks for specialty items after the receipt of the order unless modified. If a product cannot be shipped within that time, the awarded vendor shall notify the entity placing the order as to why the product has not shipped and shall provide an estimated shipping date. At this point the participating entity may cancel the order if estimated shipping time is not acceptable.

Tax Exempt Status
Since this is a national contract, knowing the tax laws in each state is the sole responsibility of the vendor.

Payments
The entity using the contract will make payments directly to the awarded vendor or their affiliates (distributors/business partners/resellers) as long as written request and approval by NCPA is provided to the awarded vendor.

Adding Authorized Distributors/Dealers
Awarded vendors may submit a list of distributors/partners/resellers to sell under their contract throughout the life of the contract. Vendor must receive written approval from NCPA before such distributors/partners/resellers considered authorized.

Purchase orders and payment can only be made to awarded vendor or distributors/ business partners/resellers previously approved by NCPA.

Pricing provided to members by added distributors or dealers must also be less than or equal to the pricing offered by the awarded contract holder.

All distributors/partners/resellers are required to abide by the Terms and Conditions of the vendor's agreement with NCPA.

Pricing
All pricing submitted shall include the administrative fee to be remitted to NCPA by the awarded vendor. It is the awarded vendor's responsibility to keep all pricing up to date and on file with NCPA.

All deliveries shall be freight prepaid, F.O.B. destination and shall be included in all pricing offered unless otherwise clearly stated in writing

Warranty
Proposal should address the following warranty information:

- Applicable warranty and/or guarantees of equipment and installations including any conditions and response time for repair and/or replacement of any components during the warranty period.
- Availability of replacement parts
- Life expectancy of equipment under normal use
- Detailed information as to proposed return policy on all equipment

Products: Vendor shall provide equipment, materials and products that are new unless otherwise specified, of good quality and free of defects
Construction: Vendor shall perform services in a good and workmanlike manner and in accordance with industry standards for the service provided.

Safety
Vendors performing services shall comply with occupational safety and health rules and regulations. Also all vendors and subcontractors shall be held responsible for the safety of their employees and any conditions that may cause injury or damage to persons or property.

Permits
Since this is a national contract, knowing the permit laws in each state is the sole responsibility of the vendor.

Indemnity
The awarded vendor shall protect, indemnify, and hold harmless Region 14 ESC and its participants, administrators, employees and agents against all claims, damages, losses and expenses arising out of or resulting from the actions of the vendor, vendor employees or vendor subcontractors in the preparation of the solicitation and the later execution of the contract.

Franchise Tax
The respondent hereby certifies that he/she is not currently delinquent in the payment of any franchise taxes.

Supplemental Agreements
The entity participating in this contract and awarded vendor may enter into a separate supplemental agreement to further define the level of service requirements over and above the minimum defined in this contract i.e. invoice requirements, ordering requirements, specialized delivery, etc. Any supplemental agreement developed as a result of this contract is exclusively between the participating entity and awarded vendor.

Certificates of Insurance
Certificates of insurance shall be delivered to the Public Agency prior to commencement of work. The insurance company shall be licensed in the applicable state in which work is being conducted. The awarded vendor shall give the participating entity a minimum of ten (10) days notice prior to any modifications or cancellation of policies. The awarded vendor shall require all subcontractors performing any work to maintain coverage as specified.

Legal Obligations
It is the Respondent's responsibility to be aware of and comply with all local, state, and federal laws governing the sale of products/services identified in this RFP and any awarded contract and shall comply with all while fulfilling the RFP. Applicable laws and regulation must be followed even if not specifically identified herein.

Protest
A protest of an award or proposed award must be filed in writing within ten (10) days from the date of the official award notification and must be received by 5:00 pm CST. Protests shall be filed with Region 14 ESC and shall include the following:

- Name, address and telephone number of protester
- Original signature of protester or its representative
- Identification of the solicitation by RFP number
- Detailed statement of legal and factual grounds including copies of relevant documents and the form of relief requested

Any protest review and action shall be considered final with no further formalities being considered.

Force Majeure
If by reason of Force Majeure, either party hereto shall be rendered unable wholly or in part to carry out its obligations under this Agreement then such party shall give notice and full particulars of Force Majeure in writing to the other party within a reasonable time after occurrence of the event or cause relied upon, and the obligation of the party giving such notice, so far as it is affected by such Force Majeure, shall be suspended during the continuance of the inability then claimed, except as hereinafter provided, but for no longer period, and such party shall endeavor to remove or overcome such inability with all reasonable dispatch.

The term Force Majeure as employed herein, shall mean acts of God, strikes, lockouts, or other industrial disturbances, act of public enemy, orders and regulation of any kind of government of the United States or any civil or military authority; insurrections; riots; epidemics; pandemic; landslides; lighting; earthquake; fires; hurricanes; storms; floods; washouts; droughts; arrests; restraint of government and people; civil disturbances; explosions, breakage or accidents to machinery, pipelines or canals, or other causes not reasonably within the control of the party claiming such inability. It is understood and agreed that the settlement of strikes and lockouts shall be entirely within the discretion of the party having the difficulty, and that the above requirement that any Force Majeure shall be remedied with all reasonable dispatch shall not require the settlement of strikes and lockouts by acceding to the demands of the opposing party or parties when such settlement is unfavorable in the judgment of the party having the difficulty

Prevailing Wage
It shall be the responsibility of the Vendor to comply, when applicable, with the prevailing wage legislation in effect in the jurisdiction of the purchaser. It shall further be the responsibility of the Vendor to monitor the prevailing wage rates as established by the appropriate department of labor for any increase in rates during the term of this contract and adjust wage rates accordingly.

Termination
Either party may cancel this contract in whole or in part by providing written notice. The cancellation will take effect 30 business days after the other party receives the notice of cancellation. After the 30th business day all work will cease following completion of final purchase order.

Open Records Policy
Because Region 14 ESC is a governmental entity responses submitted are subject to release as public information after contracts are executed. If a vendor believes that its response, or parts of its response, may be exempted from disclosure, the vendor must specify page-by-page and line-by-line the parts of the response, which it believes, are exempt. In addition, the respondent must specify which exception(s) are applicable and provide detailed reasons to substantiate the exception(s).

The determination of whether information is confidential and not subject to disclosure is the duty of the Office of Attorney General (OAG). Region 14 ESC must provide the OAG sufficient

information to render an opinion and therefore, vague and general claims to confidentiality by the respondent are not acceptable. Region 14 ESC must comply with the opinions of the OAG. Region14 ESC assumes no responsibility for asserting legal arguments on behalf of any vendor. Respondent are advised to consult with their legal counsel concerning disclosure issues resulting from this procurement process and to take precautions to safeguard trade secrets and other proprietary information.

PROCESS

Region 14 ESC will evaluate proposals in accordance with, and subject to, the relevant statutes, ordinances, rules, and regulations that govern its procurement practices. NCPA will assist Region 14 ESC in evaluating proposals. Award(s) will be made to the prospective vendor whose response is determined to be the most advantageous to Region 14 ESC, NCPA, and its participating agencies. To qualify for evaluation, response must have been submitted on time, and satisfy all mandatory requirements identified in this document.

Contract Administration
The contract will be administered by Region 14 ESC. The National Program will be administered by NCPA on behalf of Region 14 ESC.

Contract Term
The contract term will be for three (3) year starting from the date of the award. The contract may be renewed for up to two (2) additional one-year terms or any combination of time equally not more than 2 years.

It should be noted that maintenance/service agreements may be issued for up to (5) years under this contract even if the contract only lasts for the initial term of the contract. NCPA will monitor any maintenance agreements for the term of the agreement provided they are signed prior to the termination or expiration of this contract.

Contract Waiver
Any waiver of any provision of this contract shall be in writing and shall be signed by the duly authorized agent of Region 14 ESC. The waiver by either party of any term or condition of this contract shall not be deemed to constitute waiver thereof nor a waiver of any further or additional right that such party may hold under this contract.

Price Increases
Should it become necessary, price increase requests may be submitted at any point during the term of the contract by written amendment. Included with the request must be documentation and/or formal cost justification for these changes. Requests will be formally reviewed, and if justified, the amendment will be approved.

Products and Services Additions
New Products and/or Services may be added to the resulting contract at any time during the term by written amendment, to the extent that those products and/or services are within the scope of this RFP.

Competitive Range
It may be necessary for Region 14 ESC to establish a competitive range. Responses not in the competitive range are unacceptable and do not receive further award consideration.

Deviations and Exceptions
Deviations or exceptions stipulated in response may result in disqualification. It is the intent of Region 14 ESC to award a vendor's complete line of products and/or services, when possible.

Estimated Quantities
While no minimum volume is guaranteed, the estimated (but not limited to) annual volume for Products and Services purchased under the proposed Master Agreement is $50 million dollars annually. This estimate is based on the anticipated volume of Region 14 ESC and current sales within the NCPA program.

Evaluation
Region 14 ESC will review and evaluate all responses in accordance with, and subject to, the relevant statutes, ordinances, rules and regulations that govern its procurement practices. NCPA will assist the lead agency in evaluating proposals. Recommendations for contract awards will be based on multiple factors, each factor being assigned a point value based on its importance.

Formation of Contract
A response to this solicitation is an offer to contract with Region 14 ESC based upon the terms, conditions, scope of work, and specifications contained in this request. A solicitation does not become a contract until it is accepted by Region 14 ESC. The prospective vendor must submit a signed Signature Form with the response thus, eliminating the need for a formal signing process. Contract award letter issued by Region 14 ESC is the counter-signature document establishing acceptance of the contract.

NCPA Administrative Agreement
The vendor will be required to enter and execute the National Cooperative Purchasing Alliance Administration Agreement with NCPA upon award with Region 14 ESC. The agreement establishes the requirements of the vendor with respect to a nationwide contract effort.

Clarifications/Discussions
Region 14 ESC may request additional information or clarification from any of the respondents after review of the proposals received for the sole purpose of elimination minor irregularities, informalities, or apparent clerical mistakes in the proposal. Clarification does not give respondent an opportunity to revise or modify its proposal, except to the extent that correction of apparent clerical mistakes results in a revision. After the initial receipt of proposals, Region 14 ESC reserves the right to conduct discussions with those respondent's whose proposals are determined to be reasonably susceptible of being selected for award. Discussions occur when oral or written communications between Region 14 ESC and respondent's are conducted for the purpose clarifications involving information essential for determining the acceptability of a proposal or that provides respondent an opportunity to revise or modify its proposal. Region 14 ESC will not assist respondent bring its proposal up to the level of other proposals through discussions. Region 14 ESC will not indicate to respondent a cost or price that it must meet to neither obtain further consideration nor will it provide any information about other respondents' proposals or prices.

Multiple Awards
Multiple Contracts may be awarded as a result of the solicitation. Multiple Awards will ensure that any ensuing contracts fulfill current and future requirements of the diverse and large number of participating public agencies.

Past Performance
Past performance is relevant information regarding a vendor's actions under previously awarded contracts; including the administrative aspects of performance; the vendor's history of reasonable and cooperative behavior and commitment to customer satisfaction; and generally, the vendor's businesslike concern for the interests of the customer.

EVALUATION CRITERIA

Pricing (40 points)
Electronic Price Lists

- Products, Services, Warranties, etc. price list
- Prices listed will be used to establish both the extent of a vendor's product lines, services, warranties, etc. available from a particular bidder and the pricing per item.

Ability to Provide and Perform the Required Services for the Contract (25 points)

- Product Delivery within participating entities specified parameters
- Number of line items delivered complete within the normal delivery time as a percentage of line items ordered.
- Vendor's ability to perform towards above requirements and desired specifications.
- Past Cooperative Program Performance
- Quantity of line items available that are commonly purchased by the entity.
- Quality of line items available compared to normal participating entity standards.

References and Experience (20 points)

- A minimum of ten (10) customer references for product and/or services of similar scope dating within past 3 years
- Respondent Reputation in marketplace
- Past Experience working with public sector.
- Exhibited understanding of cooperative purchasing

Value Added Products/Services Description, (8 points)

- Additional Products/Services related to the scope of RFP
- Marketing and Training
- Minority and Women Business Enterprise (MWBE) and (HUB) Participation
- Customer Service

Technology for Supporting the Program (7 points)

- Electronic on-line catalog, order entry use by and suitability for the entity's needs
- Quality of vendor's on-line resources for NCPA members.
- Specifications and features offered by respondent's products and/or services

SIGNATURE FORM

The undersigned hereby proposes and agrees to furnish goods and/or services in strict compliance with the terms, specifications and conditions at the prices proposed within response unless noted in writing. The undersigned further certifies that he/she is an officer of the company and has authority to negotiate and bind the company named below and has not prepared this bid in collusion with any other Respondent and that the contents of this proposal as to prices, terms or conditions of said bid have not been communicated by the undersigned nor by any employee or agent to any person engaged in this type of business prior to the official opening of this proposal.

Prices are guaranteed: **120 days**

Cape and Island Tennis & Track

Company Name

28 Commerce Park Rd

Address

Pocasset | MA | 02559

City | State | Zip

508-759-5636 | 5028-563-7915

Telephone Number | Fax Number

INFO@TENNISANDTRACK.COM

Email Address

Kristoff Eldridge | President

Printed Name | Position

Authorized Signature

TAB 2
NCPA ADMINISTRATION AGREEMENT

This Administration Agreement is made as of May 1, 2023, by and between National Cooperative Purchasing Alliance ("NCPA") and Cape and Island Tennis & Track ("Vendor").

Recitals

WHEREAS, Region 14 ESC has entered into a certain Master Agreement dated May 1, 2023, referenced as Contract Number 08-41, by and between Region 14 ESC and Vendor, as may be amended from time to time in accordance with the terms thereof (the "Master Agreement"), for the purchase of Athletic Surfacing and Asphalt Maintenance;

WHEREAS, said Master Agreement provides that any state, city, special district, local government, school district, private K-12 school, technical or vocational school, higher education institution, other government agency or nonprofit organization (hereinafter referred to as "public agency" or collectively, "public agencies") may purchase products and services at the prices indicated in the Master Agreement;

WHEREAS, NCPA has the administrative and legal capacity to administer purchases under the Master Agreement to public agencies;

WHEREAS, NCPA serves as the administrative agent for Region 14 ESC in connection with other master agreements offered by NCPA

WHEREAS, Region 14 ESC desires NCPA to proceed with administration of the Master Agreement;

WHEREAS, NCPA and Vendor desire to enter into this Agreement to make available the Master Agreement to public agencies on a national basis;

NOW, THEREFORE, in consideration of the payments to be made hereunder and the mutual covenants contained in this Agreement, NCPA and Vendor hereby agree as follows:

General Terms and Conditions

- The Master Agreement, attached hereto as Exhibit 1 and incorporated herein by reference as though fully set forth herein, and the terms and conditions contained therein shall apply to this Administration Agreement except as expressly changed or modified by this Administration Agreement.
- NCPA shall be afforded all of the rights, privileges and indemnifications afforded to Region 14 ESC under the Master Agreement, and such rights, privileges and indemnifications shall accrue and apply with equal effect to NCPA under this Administration Agreement including, but not limited to, Contractor's obligation to provide appropriate insurance and certain indemnifications to Region 14 ESC.

- Contractor shall perform all duties, responsibilities and obligations required under the Master Agreement in the time and manner specified by the Master Agreement.
- NCPA shall perform all of its duties, responsibilities, and obligations as administrator of purchases under the Master Agreement as set forth herein, and Contractor acknowledges that NCPA shall act in the capacity of administrator of purchases under the Master Agreement.
- With respect to any purchases made by Region 14 ESC or any Participating Agency pursuant to the Master Agreement, NCPA (a) shall not be construed as a dealer, re-marketer, representative, partner, or agent of any type of Contractor, Region 14 ESC, or such Participating Agency, (b) shall not be obligated, liable or responsible (i) for any orders made by Region 14 ESC, any Participating Agency or any employee of Region 14 ESC or Participating Agency under the Master Agreement, or (ii) for any payments required to be made with respect to such order, and (c) shall not be obligated, liable or responsible for any failure by the Participating Agency to (i) comply with procedures or requirements of applicable law, or (ii) obtain the due authorization and approval necessary to purchase under the Master Agreement. NCPA makes no representations or guaranties with respect to any minimum purchases required to be made by Region 14 ESC, any Participating Agency, or any employee of Region 14 ESC or Participating Agency under this Administration Agreement or the Master Agreement.
- With respect to any supplemental agreement entered into between a Participating Agency and Contractor pursuant to the Master Agreement, NCPA, its agents, members and employees shall not be made party to any claim for breach of such agreement.
- This Administration Agreement supersedes any and all other agreements, either oral or in writing, between the parties hereto with respect to the subject matter hereof, and no other agreement, statement, or promise relating to the subject matter of this Administrative Agreement which is not contained herein shall be valid or binding.
- Contractor agrees to allow NCPA to use their name and logo within website, marketing materials and advertisement. Any use of NCPA name and logo or any form of publicity regarding this Administration Agreement or the Master Agreement by Contractor must have prior approval from NCPA.
- If any action at law or in equity is brought to enforce or interpret the provisions of this Administration Agreement or to recover any administrative fee and accrued interest, the prevailing party shall be entitled to reasonable attorney's fees and costs in addition to any other relief to which such party may be entitled.
- Neither this Administration Agreement nor any rights or obligations hereunder shall be assignable by Contractor without prior written consent of NCPA, provided, however, that the Contractor may, without such written consent, assign this Administration Agreement and its rights and delegate its obligations hereunder in connection with the transfer or sale of all or substantially all of its assets or business related to this Administration Agreement, or in the event of its merger, consolidation, change in control or similar transaction. Any permitted assignee shall assume all assigned obligations of its assignor under this Administration Agreement.
- This Administration Agreement and NCPA's rights and obligations hereunder may be assigned at NCPA's sole discretion, to an existing or newly established legal entity that has the authority and capacity to perform NCPA's obligations hereunder.

Term of Agreement

This Agreement shall be in effect so long as the Master Agreement remains in effect, provided, however, that the obligation to pay all amounts owed by Vendor to NCPA through the

termination of this Agreement and all indemnifications afforded by Vendor to NCPA shall survive the term of this Agreement.

Fees and Reporting

The awarded vendor shall electronically provide NCPA with a detailed quarterly report showing the dollar volume of all sales under the contract for the previous quarter. Reports are due on the fifteenth (15th) day after the close of the previous quarter. It is the responsibility of the awarded vendor to collect and compile all sales under the contract from participating members and submit one (1) report. The report shall include at least the following information as listed in the example below:

Entity Name	Zip Code	State	PO or Job #	Sale Amount

Total _____

Each quarter NCPA will invoice the vendor based on the total of sale amount(s) reported. From the invoice the vendor shall pay to NCPA an administrative fee based upon the tiered fee schedule below. Vendor's annual sales shall be measured on a calendar year basis. Deadline for term of payment will be included in the invoice NCPA provides.

Annual Sales Through Contract	Administrative Fee
0 - $30,000,000	2%
$30,000,001 - $50,000,000	1.5%
$50,000,001+	1%

Supplier shall maintain an accounting of all purchases made by Public Agencies under the Master Agreement. NCPA and Region 14 ESC reserve the right to audit the accounting for a period of four (4) years from the date NCPA receives the accounting. In the event of such an audit, the requested materials shall be provided at the location designated by Region 14 ESC or NCPA. In the event such audit reveals an under reporting of Contract Sales and a resulting underpayment of administrative fees, Vendor shall promptly pay NCPA the amount of such underpayment, together with interest on such amount and shall be obligated to reimburse NCPA's costs and expenses for such audit.

ACKNOWLEDGMENT OF CONTRACTOR REQUIREMENTS

National Cooperative Purchasing Alliance	Cape and Island Tennis & Track
Organization	Vendor Name
Sarah Vavra	Kristoff Eldridge
Name	Name
Sr. Vice President, Public Sector Contracting	President
Title	Title
5001 Aspen Grove	28 Commerce Park Rd
Address	Address
Franklin, TN 37067	Pocasset MA, 02559
Address	Address
Sarah Vavra	
Signature	Signature
May 1, 2023	03/20/23
Date	Date

TAB 3
VENDOR QUESTIONAIRE

Please provide responses to the following questions that address your company's operations, organization, structure, and processes for providing products and services.

Locations Covered

- Bidder must indicate any and all locations where products and services can be offered.
- Please indicate the price co-efficient for each location if it varies.

☐ **All 50 States & District of Columbia** (Selecting this box is equal to checking all boxes below)			
☐ Alabama	☐ Illinois	☐ Montana	☒ Rhode Island
☐ Alaska	☐ Indiana	☐ Nebraska	☐ South Carolina
☐ Arizona	☐ Iowa	☐ Nevada	☐ South Dakota
☐ Arkansas	☐ Kansas	☒ New Hampshire	☐ Tennessee
☐ California	☒ Massachusetts	☐ New Jersey	☐ Texas
☐ Colorado	☐ Michigan	☐ New Mexico	☐ Utah
☒ Connecticut	☐ Minnesota	☐ New York	☒ Vermont
☐ Delaware	☐ Mississippi	☐ North Carolina	☐ Virginia
☐ D.C.	☐ Missouri	☐ North Dakota	☐ Washington
☐ Florida	☐ Kentucky	☐ Ohio	☐ West Virginia
☐ Georgia	☐ Louisiana	☐ Oklahoma	☐ Wisconsin
☐ Hawaii	☒ Maine	☐ Oregon	☐ Wyoming
☐ Idaho	☐ Maryland	☐ Pennsylvania	

☐ **All U.S. Territories and Outlying Areas** (Selecting this box is equal to checking all boxes below)	
☐ American Samoa	☐ Northern Marina Island
☐ Federated States of Micronesia	☐ Puerto Rico
☐ Guam	☐ U.S. Virgin Islands

☐ Midway Islands	
☐ **All Canada Provinces and Territories** (Selecting this box is equal to checking all boxes below)	
☐ Alberta	☐ Prince Edward Island
☐ British Columbia	☐ Quebec
☐ Manitoba	☐ Saskatchewan
☐ New Brunswick	☐ Northwest Territories
☐ Newfoundland and Labrador	☐ Nunavut
☐ Nova Scotia	☐ Yukon
☐ Ontario	

If awarded a Master Agreement, will your company extend the terms offered in your Proposal to public agencies in Canada? If no or maybe, please explain.

☐ Yes ☐ Maybe ☒ No

If awarded a Master Agreement, will your company extend the terms offered in your Proposal to private sector customers?

☐ Yes ☒ Maybe ☐ No

Minority and Women Business Enterprise (MWBE) and (HUB) Participation
It is the policy of some entities participating in NCPA to involve minority and women business enterprises (MWBE) and historically underutilized businesses (HUB) in the purchase of goods and services. Respondents shall indicate below whether or not they are an M/WBE or HUB certified.

☐ Minority/Women Business Enterprise
Respondent Certifies that this firm a Minority / Women Business Enterprise

☐ Historically Underutilized Business
Respondent Certifies that this firm is a Historically Underutilized Business

Small Business, MWBE and HUB Growth
If Proposer is a Large, National or Multinational Organization/Corporation, what programs are in place that partners or supports the growth of small and MWEB and HUB business? If yes, please describe.

☐ N/A, we are a recognized small, MWEB or HUB organization

☒ No, we do not have any programs in place.

☐ Yes, we have programs in place.

Residency

Responding Company's principal place of business is in the city of Bourne, State of Massachusetts.

Felony Conviction Notice

Please Check Applicable Box (If the 3rd box is checked, a detailed explanation of the names and convictions must be attached):

☐ A publicly held corporation; therefore, this reporting requirement is not applicable.

☒ Is not owned or operated by anyone who has been convicted of a felony.

☐ Is owned or operated by the following individual(s) who has/have been convicted of a felony

Distribution Channel

Which best describes your company's position in the distribution channel:

☐ Manufacturer Direct ☐ Certified education/government reseller

☐ Authorized Distributor ☐ Manufacturer marketing through reseller

☒ Value-added reseller ☐ Other: _____

Processing Contact Information

Contact Person	Karen Smith
Title	Controller
Company	Cape and Island Tennis & Track
Address	28 Commerce Park Rd
City/State/Zip	Pocasset, MA 02559
Phone	508-759-5636
Email	KSmith@tennisandtrack.com

Pricing Information

In addition to the current typical unit pricing furnished herein, the Vendor agrees to offer all future product introductions at prices that are proportionate to Contract Pricing. If answer is no, attach a statement detailing how pricing for NCPA participants would be calculated for future product introductions.

☒ Yes ☐ No

Pricing submitted includes the required NCPA administrative fee. The NCPA fee is calculated based on the invoice price to the customer.

☒ Yes ☐ No

Cooperatives

List any other cooperative or state contracts currently held or in the process of securing.

Cooperative/State Agency	Discount Offered	Expires	Annual Sales Volume

National Cooperative Purchasing Alliance

Vendor Profile

Please provide the following information about the Company:

Company's official registered name.

Cape and Island Corporation

Brief history of Cape and Island Tennis & Track, including the year it was established.

Cape and Island Tennis & Track was founded in 1972 and has been raising national industry standards ever since, while operating within the New England area. Specializing in the surfacing and construction of running tracks and tennis courts, CIT&T brings an unsurpassed level of expertise and craftsmanship. The leadership team has served in industry elected positions such as President and Chairman of the American Sports Builder Association (ASBA). Continued service on the technical boards within the industry (the USTA and the ASBA) emphasize the dedication to improvement within the industry. CIT&T desired result of improving the quality of game play and strengthening the criteria for all sports facility contractors.

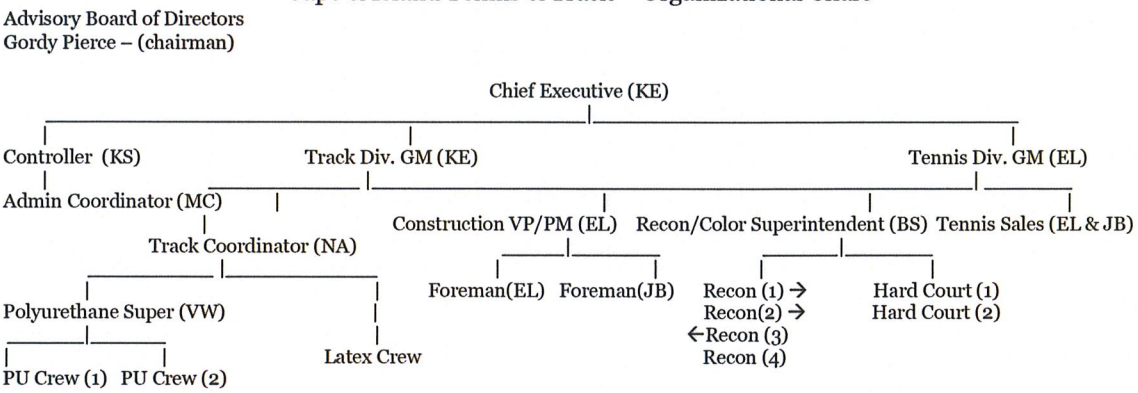
Company's Dun & Bradstreet (D&B) number:

021727771

Company's organizational chart of those individuals that would be involved in the contract.

Cape and Island
TENNIS & TRACK

Cape & Island Tennis & Track – Organizational Chart



Corporate office location:

28 Commerce Park Rd, Pocasset, MA 02559
(508) 759-5636

List the number of sales and services offices for states being bid in solicitation.
1 Central Office Location; 6 states (CT, RI, MA, NH, ME, VT)

List the names of key contacts at each with title, address, phone and email address.

Kristoff Eldridge, CTB
President

Kristoff has been involved with the sport of Track and Field as an athlete/fan/coach since high school. In 1993 Kristoff began working for Cape and Island Tennis & Track as a field technician during the summers until his graduation from college in 2000 when he began working for us full time handling sales and operational duties for the track division. In 2002 Kristoff became the regions first ASBA (American Sports Builders Association) Certified Track Builder. In 2020 after 20 years as track division head; Kristoff took over the leadership of the company from retiring founder Gordon Pierce. Kristoff has served on the ASBA Board of Directors and as the Past-President of the ASBA Track Division and ASBA Chairman. He is a

member of the Running Tracks Construction and Maintenance Manual editorial board, the Technical Committee and is the chairman of the ASTM Editorial t. He serves as an ASBA Technical contact and representative for the industry at NCAA, NFSHS and USATF rules committee meetings.
keldridge@tennisandtrack.com
Mr. Eldridge's Previous Offices/Volunteer Positions

- ASBA Board of Directors
- ASBA Chairman
- President of ASBA Track Division (2 terms)
- ASBA Technical Committee Chair
- ASBA Delegatate to Industry Governing Bodies (NCAA, NFHS & USA Track & Field)
- ASBA Running Track Construction Manual Editorial Committee
- ASBA Polyurethane's Task Force
- ASTM Running Track Standards Committee
- Certified Track Builder Test Development Committee

Eric Loftus
Vice President – Courts Division (Tennis, Pickleball & Padel)

Eric is an avid racquets sports player and enthusiast who started at Cape and Islands in 2011 after a career in Real Estate Investment. Along with consistently growing year over year, Eric is a member of the Joint Editorial Board of the Pickleball Courts construction and maintenance manual from ASBA (American Sports Builders Association), as well as serving on ASBA's Marketing Committee.

Outside of his professional life, Eric has served on Boards for the Big Brothers Big Sisters community foundation as well as various entrepreneurial mentorship programs in and around the greater Cape Cod area.

Field Personnel

- Victor Ward – 40+ years of polyurethane running track surfacing, including facilities such as the White House, Harvard University, Holy Cross and Providence College to name a few.
- Ryan Pierce – Running Track Striping experience with IAAF Certified facilities including the Pacific mini games in the Republic of Palau. Mr. Pierce has striped all CIT&T track for the past 20 years.

Define your standard terms of payment.

Net 30

Who is your competition in the marketplace?

Copeland Coating, Boston Tennis, ATT Sports, Maine Tennis & Track

Provide Annual Sales for last 3 years broken out into the following categories:

Cities/Counties
K-12
Higher Education
Other government agencies or nonprofit organizations

	2022	2021	2020
Cities/Counties	$1,000,000	$0	$800,000
K-12	$7,000,000	$4,100,000	$4,500,000
Higher Education	$2,000,000	$1,400,000	$600,000
Other Agencies	$300,000	$250,000	$0

Provide the revenue that your organization anticipates each year for the first three (3) years of this agreement

$ 14,000,000 in year one

$ 15,000,000 in year two

$ 16,000,000 in year three

What differentiates your company from competitors?

While we are capable of a turnkey operation, CIT&T focuses rather on teaming up with local architects and engineers as well as site contractors. This has made us the desired partner for all major sports facility designers and builders in New England. Members of the CIT&T team are heavily involved nationally with We produce the highest quality workmanship and team up with top industry manufacturers to provide our customers with the very best. This has resulted in the vast majority of the track surfacing and tennis court market in New England.

Describe how your company will market this contract upon award.

Currently CIT&T exhibits at dozens of trade shows in New England including facility managers, coaches, parks and rec personnel, school business officials etc. We also sponsor several influential organizations such as USTA New England, The New England Track & Field Championships and The

Massachusetts Track Coaches Association. CIT&T also is currently fulfilling cooperative purchasing work for other contract holders who do not have a market share in New England, and marketing this procurement method heavily. Essentially we would be continuing this strategy as it has been successful for us and the cooperative contracts we are fulfilling. With one added advantage. Because CIT&T has not been a direct co-op contract holder we would have a price advantage over the current co-op contract prices that are being extensively utilized.

Describe how you intend to introduce NCPA within your company.

NCPA would be introduces as the cooperative purchasing sales channel that we are using from contract award on.

Describe your firm's capabilities and functionality of your online catalog/ordering website. While we do have an online catalog for tennis and track equipment (windscreens, nets, center anchors etc), this is not applicable for the work proposed under this contract solicitation.

Describe your company's Customer Service Department
(i.e. hours of operation, number of service centers,etc.)

Our administrative offices are open 8:30am-5:00pm Monday through Friday.

Green Initiatives

Cape & Islands Tennis & Track has been a pioneer in the development of environmentally sustain-able athletic surfaces since our founding in 1972. In addition to providing athletic facilities for active healthy living, CIT&T consciously does business in an environmentally friendly manner. We have stra-tegically partnered with manufacturers who share our philosophy while restricting our partnerships only to those vendors located within a 500 mile radius of our installation territory. Our primary tennis court and running track manufacturers include Beynon Sports Surfaces and California Products Corp. (Plexipave, Decoturf, Plexitrac). Each designs its products to meet the stringent criteria required to earn points under numerous categories of LEED 2009 and/or USG BC criteria. Additionally, our prod-ucts can assist architects and designers in obtaining important credits toward LEED certification.
A few of our partners sustainable components and environmentally-friendly research and develop-ment initiatives include:

- Beynon Sports has achieved GREENGUARD GOLD Certification

- Beynon's 100% SOLIDS PRTh1ER-A two-component primer formulated for use on concrete sub-strates. Zero solvents are added. Te primer is based on a new technology utilizing cashew oil
- ALIPHATIC COATINGS - Beynon Sports manufactured and supplied coatings exceed all federal and state regulations for volatile organic compounds (VOC)
- 100% SOLIDS 1-C SPRAY - Beynon Sports is the only manufacturer to supply a 100% solids single- component structural spray, thus eliminating exposure to solvents
- WATER-BASED 1-C SPRAY - Beynon's revolutionary single-component structural spray for use in the application of texturing layers with no free isocyanate. This product is ideal for use around turf fields and enclosed areas
- BEYPUR 250 - Beynon's two-component urethane utilizes natural-based polyols for the roost en'7i-ronmentally friendly polyurethane formulation on the market today
- California Products Corp. Is a USGBC member
- California Products Corp. Manufactures and warehouses Plex:i.pave, Decoturf & Plexitrac products within our territm:y.
- California Products Corp. Formula's are all EPA and OTC compliant.

LEED Buildings Material Certification Form

Project Name: _____ Contractor Name: BEYNON SPORTS Submittal Number: _____

Project Location: _____ Telephone Number: 410-771-9473 Submittal Date: _____

MANUFACTURER / PRODUCT NAME	MATERIAL COST[1] Less Labor & Equip. ($)	RECYCLED CONTENT POST-CONSUMER[2] (%)	RECYCLED CONTENT PRE-CONSUMER[3] Post-Industrial (%)	REGIONAL MATERIALS MANUFACTURING LOCATION[4] (City, State)	REGIONAL MATERIALS RAW RESOURCES LOCATION[5] (City, State)	RAPIDLY RE-NEWABLE[7] (%)	FSC CERTIFIED WOOD[6] Wood Products Only (%)	FSC CERTIFIED WOOD[6] Wood Products Only (COC#)	SUPPORTING DOCUMENTS[8] indicate type(s)
EXAMPLE: EcoGyp-R-Us; 5/8" Gyp Bd		*5%*	*94%*	*Paterson, NY*	*Altoona, PA*	*0%*	*0%*	*n/a*	☑ MSDS or Cut Sheet ☐ Manufacturer Letter ☐ Other
BEYNON, BEYPUR 300		0%	0%	HUNT VALLEY, MD	LA,TX	0%	0%	n/a	☐ MSDS or Cut Sheet ☐ Manufacturer Letter ☐ Other
BEYNON, BEYPUR 200A		0%	0%	HUNT VALLEY, MD	LA, TX, IN, GA, INDIA	17.9%	0%	n/a	☑ MSDS or Cut Sheet ☑ Manufacturer Letter ☐ Other
BEYNON, BEYPUR "UNIVERSAL B"		0%	0%	HUNT VALLEY, MD	WV	0%	0%	n/a	☐ MSDS or Cut Sheet ☐ Manufacturer Letter ☐ Other
BEYNON, BEYPUR 160		0%	0%	HUNT VALLEY, MD	LA, TX, IN, GERMANY, SPAIN	0%	0%	n/a	☐ MSDS or Cut Sheet ☐ Manufacturer Letter ☐ Other

[1] ***Material Cost ($)***: The cost of the materials as it would appear on the manufacturer's or distributor's invoice to the contractor or subcontractor. Note: Material cost does not include labor or equipment costs associated with the installation of the product.

[2] ***Post-Consumer Recycled Content (%)***: Portion (by weight) of material or product which derives from discarded consumer waste that has served its intended purpose and has been recovered for use as a raw material (e.g. a plastic bottle from a soft drink).

[3] ***Pre-Consumer Recycled Content (%)***: (also called Post-Industrial) Portion (by weight) of material or product which derives from recovered industrial and manufacturing waste materials that are diverted for use in a different manufacturing process prior to use by a consumer (e.g. fly-ash in concrete and synthetic gypsum board, both use recovered waste products from coal burning electricity plants). Note: Pre-Consumer Recycled Content does not include scrap raw materials that can be reused in the same manufacturing process from which they are recovered.

[4] ***Manufacturing Location (City, State)***: Manufacturing Location is the final assembly location of components into a building product that is then installed by the tradesmen (e.g. if a windows glass comes from Atlanta, GA and the aluminum casing from Charlotte, NC and the window is assembled in Baltimore, MD, then the Manufacturing Location of the window is Baltimore,MD).

[5] ***Raw Resources Location (City, State)***: The location from which the building product components were extracted, harvested, or recovered (e.g. in the example above, the window would have two Raw Resources Locations: Atlanta, GA and Charlotte, NC).

[6] ***FSC Certified***: Potion (by weight) of wood-based material or products that are certified by the Forest Stewardship Council (FSC). A Chain-of-Custody number (COC#) is required for all FSC certified wood products. Note: This column is only applicable to wood products.

[7] ***Rapidly Renewable (%)***: Portion (by weight) of materials and products made from raw materials that are harvested within a 10-year cycle (e.g. bamboo, cork, linoleum, wool, cotton insulation, and wheatboard)

[8] ***Supporting Documents***: are required to verify the accuracy of the information on this form. Please indicate the type(s) of Supporting Documents that are attached to this form. Supporting Documents may include, but are not limited to one of the following: Material Safety Data Sheets (MSDS), Cut Sheets, and Manufacturer Letters of Certification (must be provided on the manufacturer's letterhead).

VOC Compliance: For products that are Adhesives, Sealants, Paints, Coatings, Carpets Systems, Composite Wood and Agrifiber products, please fill out the LEED VOC Certification Form.

I, MIKE GASPAROVIC a duly authorized representative of BEYNON SPORTS hereby certify that the material information contained herein is an accurate representation of the material qualifications to be provided by us, as components of the final building construction.

California Products
CORPORATION

150 Dascomb Road • Andover, MA 01810 • Telephone: 978.623.9980 • Facsimile: 978.623.9960

CALIFORNIA PRODUCTS CORP. IS A "GREEN" MANUFACTURER

California Products Corporation is the manufacturer of the California Paints® brand of coatings as well as the Plexipave® and DecoTurf® sports surfacing systems. A wholly-owned subsidiary, Fiberlock Technologies, Inc., markets a line of products designed to address a variety of environmental safety and health hazard issues.

Strategic Location Design
All California products are produced in a state of the art manufacturing plant. Built in 2000 in Andover, MA. the entire facility was designed with protecting the environment as a top priority. The plant is innovatively self-contained, eliminating all possibility of environmental contamination in the unlikely event of an accidental spill. This cutting edge manufacturing site is also equipped with an indoor bulk liquids offloading area with containment capability that is double the volume of any delivering tanker.

Responsible Manufacturing
California Products Corporation is dedicated to preserving the environment through its commitment to eliminating and reducing waste at every possible stage of operations. As all of the California products are manufactured onsite, the entire process is regulated by employees who have undergone rigorous training in all environmental issues pertaining to the manufacturing, storing, and shipping of all products. All waste water and solvents used in manufacturing are recycled and reused. All crushed cans are recycled.

Smart Products
Because protecting the environment is of dire importance, California formulas are not only compliant with the EPA standards, but comply also with the strictest OTC (Ozone Transport Commission) standards as set by certain states. Some California Paint formulas are often available in a low odor, Low VOC (Volatile Organic Compound) form.

California Products Corporation is proud to be classed as a "Green" Manufacturer. As a member of the Coatings Research Group, Inc., many products have been submitted for evaluation and certification allowing our products to bear the "Green Wise" logo.

The Green Wise mark is recognized by specifiers, contractors, and retail customers as a mark they can trust. It's their assurance that the product bearing this mark has been tested by an ISO accredited testing laboratory and found to meet or exceed scientifically determined environmental standards. Green Wise certified products also meet or exceed the paint and coatings VOC requirements of LEED Indoor Air Quality Credit 4.2 for most applications.

461-42
12/6/13

Ronald B. Child, VP
Compliance & Regulatory Affairs

TAB 5
PRODUCTS AND SERVICES

Respondent shall perform and provide these products and/or services under the terms of this agreement. The supplier shall assist the end user with making a determination of their individual needs.

Warranty
Proposal should address the following warranty information:

- Applicable warranty and/or guarantees of equipment and installations including any conditions and response time for repair and/or replacement of any components during the warranty period.
- Availability of replacement parts
- Life expectancy of equipment under normal use
- Detailed information as to proposed return policy on all equipment

Products

- Vendor shall provide equipment, materials and products that are new unless otherwise specified, of good quality and free of defects

Construction

- Vendor shall perform services in a good and workmanlike manner and in accordance with industry standards for the service provided.

The following is a list of suggested (but not limited to) Athletic Surfacing and Asphalt Maintenance categories. List all categories along with manufacturer that you are responding with:

Athletic

- Acrylic Sports Surfaces
- Turf Products
- Running Track Surfaces
- Tennis Surfaces
- Overlay Surfaces
- Repair Products
- Sports Equipment and Accessories
- Sports Paving
- Paving
- Fencing

Asphalt

- Asphalt Surface Patch
- Asphalt Remove/Replace
- Asphalt Speed Humps and Tables
- Asphalt Concrete Pavement
- Geotextile Paving Fabric
- Bonded Wearing Course
- Hot Rubber Crack Fill
- Asphalt Emulsion Seal Coat
- Tire Rubber Modified Surface Sealer (TRMSS)
- Conventional Slurry Seal
- Convention Asphalt Chip Seal
- Polymer Modified Asphalt Chip Seal
- Acrylic Modified Asphalt Emulsion Seal
- Fog Seal
- Tack Coat
- Cement Soil Stabilization
- Lime Soil Stabilization
- Dust Palliative
- Single Pass Reclamation
- Manhole, Water and Sewer Adjustments
- Monument Adjustments
- Concrete Curb, Curb/Gutter and Sidewalks
- Concrete Safety Curbs
- Striping and Marking

Services

- Consultation
- Installation
- Coating
- Paving
- Lining

- AFFIDAVIT -

BSS System Component Usage

To Whom It May Concern:

Beynon Enterprises Inc. through Beynon Sports Surfaces, Inc. produces a full range of formulated polyurethanes utilized in the track and field surface, synthetic gymnasium and fieldhouse surface, as well as the playground and water play surface markets.

All binders used for BSS systems, under the tradename BEYPUR™, have been specifically formulated for outdoor running track surfacing.

If there are any questions, please do not hesitate to contact me at anytime.

Best regards,

Drew Beynon
Director of Business Development
Beynon Enterprises, Inc.
16 Alt Road
Hunt Valley, Maryland 21030

16 Alt Road
Hunt Valley, Maryland
21030

1.888.240.3670

BSS 50
Synthetic Track Surfacing System
System Specifications

Part 1 - General

1.1 - Scope

The synthetic surfacing contractor shall furnish all labor, materials, equipment, supervision, and services necessary for the proper completion of all **BSS 50** Synthetic Track Surfacing and related work indicated on the drawings and specified herein.

The synthetic surfacing contractor shall refer to the drawings for the required locations of synthetic track surfacing to be installed. All quantities and dimensions shall be field verified by the synthetic surfacing contractor.

1.2 - Specific Scope of Work

A. Install a porous track system comprised of SBR granules bound with BEYPUR 300, a polyurethane track binder.

1.3 - Coordination

The synthetic surfacing contractor shall coordinate the work specified with an authorized and appointed representative of the owner so as to perform the work during a period and in a manner acceptable to the owner.

Part 2 - Codes and Standards

2.1 - Applicable Publications

Codes and standards follow the current guidelines set forth by the International Amateur Athletic Federation (IAAF) and the National Collegiate Athletic Association (NCAA), along with the current material testing guidelines as published by the American Society of Testing and Materials (ASTM).

2.2 - Performance Standards

The **BSS 50** surfacing system shall exhibit the following minimum performance standards (ASTM):

• Thickness:	(12-13mm) or as specified
• Shore A Hardness:	50 ± 5 (ASTM D-2240)
• Elongation at Break:	~90% (ASTM D-412)
• Tensile Strength:	0.75 N/mm^2 (ASTM D-412)
• Compression Set Recovery:	90%-95% over 24hr period (ASTM D-412)
• Abrasion Resistance:	0.25 grams loss after 1000 cycles (ASTM D-501)
• Coefficient of Friction:	Dry: 0.7-0.75, Wet: 0.6-0.65 (ASTM D-1984)
• Resilience:	37%-39% (ASTM D-2632)
• Tear Resistance:	50-65 psi (ASTM D-624)

Part 3 - Quality Assurance

3.1 - Contractor and Manufacturer Qualifications

A. The CONTRACTOR and the MANUFACTURER must be the same.

B. The CONTRACTOR must have a minimum of 10 years experience in the installation of poured-in-place, two-component elastomeric polyurethane synthetic track surfacing.

C. The CONTRACTOR shall be able to furnish evidence that they have been in business for a period of not less than 3 years, under the present name, and if required, furnish financial statements for each of the past 3 years.

D. The CONTRACTOR must have installed a minimum of 10 outdoor track facilities in the last 2 years using the exact, IAAF certified, synthetic track surfacing, as specified herein with the contractor bidding this project.

E. The MANUFACTURER must have a minimum of 10 years of experience with compound two-part polyurethane for athletic surfaces.

F. The CONTRACTOR is required to provide documentation that shows the selected specified and installed product meets current IAAF Performance Standards for Synthetic Surfaced Athletics Tracks (Outdoor) and is certified in terms of the IAAF certification system as updated to present day.

G. CONTRACTOR is to provide a list of completed facilities, minimum of 10 which are certified to meet IAAF/NCAA rules & regulations, utilizing the same product as specified.

H. The MANUFACTURER must offer a minimum of six (6) IAAF Certified Track Systems.

I. All polyurethane components must be MANUFACTURED in the United States in an **ISO 9001:2008 Certified** facility to ensure the highest quality materials.

J. The CONTRACTOR must have installed a minimum of two (2) Class I IAAF Certified outdoor tracks within the United States.

3.2 - Submittals

The following submittals must be received with the bid submittal:

A. Standard printed specifications of the BSS 50 surfacing system to be installed on this project.

B. An affidavit attesting that the BSS 50 meets the requirements defined by the manufacturers currently published specifications and any modifications outlined in those technical specifications.

C. A synthetic track surfacing system sample, 6"x6"in size, of the same synthetic track surfacing system to be installed on this project.

D. An installation list of outdoor track facilities installed in the last two years using the exact synthetic track surfacing system specified herein.

Part 4 - Materials

4.1 – Primers

Primers shall be BEYPRIM, a polyurethane-based primer, specifically formulated to be compatible with the paved-in-place SBR track surfacing material.

4.2- SBR Granules

The rubber granules for the base mat shall be SBR, chopped to 1-3mm size, containing less than 1% dust.

4.3 – Polyurethane Binder

Binder for the SBR Granules shall be BEYPUR, an MDI-based single-component, polyurethane track binding agent. The binder shall not have a free TDI monomer level above 0.2% and must be solvent free. The binder must be specially formulated for compatibility with SBR rubber crumb.

4.4 - Line Marking Paint

All line and event markings shall be applied by experienced personnel utilizing a single component, moisture cured, aliphatic polyurethane paint compatible with the BSS 50 Track System.

Part 5 - Installation

5.1 - Subbase

The **BSS 50** Track Surfacing System shall be laid on an approved subbase. The General Contractor shall provide compaction test results of 95% or greater for the installed subbase and asphalt surface.

For NCAA certification the following criteria must be followed. The track surface, i.e. asphalt substrate, shall not vary from planned cross slope by more than ± .2%, with a maximum lateral slope outside to inside of 1%, and a maximum slope of 0.1% in any running direction. The finished asphalt shall not vary under a 10' straight edge more than 1/8".

It should be the responsibility of the asphalt-paving contractor to flood the surface immediately after the asphalt is capable of handling traffic, but within 24 hours. If, after 20 minutes of drying time, there are birdbaths evident, it shall be the responsibility of the architect, in conjunction with the surfacing contractor to determine the method of correction. No cold tar patching, skin patching or sand mix patching will be acceptable.

Any oil spills (hydraulic, diesel, motor oil, etc.) must be completely removed, either by chipping out or removing and replacing with new, keyed in asphalt. The minimum depth of any asphalt replacement shall be one inch. The curing time for the asphalt base is **28 days**. It shall be the responsibility of the surfacing contractor to determine if the asphalt substrate has cured sufficiently prior to the application of the polyurethane surfacing system.

It shall be the responsibility of the general contractor to determine if the asphalt substrate meets all design specifications, i.e. cross slopes, planarity and specific project criteria. After all the above conditions are met, the synthetic surfacing contractor must, in writing, accept the planarity of the asphalt receiving base before work can commence.

5.2 – Thickness

The thickness of the **BSS 50** Synthetic Track Surfacing System shall be 13mm.

5.3 – Equipment

The **BSS 50** Synthetic Track Surfacing System components shall be processed and installed by specially designed machinery and equipment. A mechanically operated paver with variable regulated speed and thermostatically controlled screed shall be used in the installation of the base mat.

5.4 - Installation

A. Base Course

The SBR granules and BEYPUR shall be mixed together on site to regulate the ratio/quantity of SBR, not to exceed 82% by weight in the base mat portion of the system. The BEYPUR shall be mixed with the SBR rubber so that a minimum of 20%, by weight, exists in the final mixture. This mixture is then mechanically installed using the paver.

5.5 - Site Conditions

A. Installation shall not take place if adjacent or concurrent construction generates excessive dust, abrasives or any other by-product that, in the opinion of the installer, would be harmful to the track material, until completion of such works.

B. If, in the opinion of the installer of the synthetic material, the weather and/or climatic conditions are detrimental to the proper installation of the surfacing materials, work shall be delayed until conditions are acceptable. Preferred installation temperature is fifty degrees Fahrenheit and rising. Installation shall be executed only in dry conditions.

Part 6 - Line Striping and Event Markings

6.1 - Layout

Line striping and event markings shall be laid out in accordance with current drawings.

Part 7 - Guarantee

Synthetic track surfacing system shall be fully guaranteed against faulty workmanship and material failure for a period of three (3) years from the date of acceptance.

Synthetic surfacing material found to be defective as a result of faulty workmanship and/or material failure shall be replaced or repaired at no charge, upon written notification within the guarantee period.

WORLD ATHLETICS

PRODUCT CERTIFICATE

World Athletics is pleased to certify that the following product meets all the technical requirements of the World Athletics Rules for the relevant competitions.

Product's Trade Name:

Synthetic surface - BSS-100

Description, Colour/Absolute Thickness:

Spray coat, porous, 13.1mm

Company Name, Country:

Beynon Sports Surfaces, Inc., USA

Catalogue Number:

-

Certification Number:

S-04-0044

Test Report by and on:

R211438-A1, Labosport SAS (FRA), 12 August 2021

Note:

-

Date of Issue:

1 September 2021

Date of Expiry:

September 2025

Issued in accordance with the terms and conditions of the World Athletics Certification System

Jon Ridgeon

WORLD ATHLETICS

BSS 100
SYNTHETIC TRACK SURFACING SYSTEM
INSTALLATION

Thickness

*The thickness of the **BSS 100** Synthetic Track Surfacing System shall be 13mm.*

Equipment

*The **BSS 100** Synthetic Track Surfacing System components shall be processed and installed by specially designed machinery and equipment. A mechanically operated paver with variable regulated speed and thermostatically controlled screed shall be used in the installation of the base mat. The wearing course shall be installed using automatic electronic portioning, which provides continuous mixing and feeding for an accurate, quality controlled installation.*

Installation

A. Base Course

The SBR granules and BEYPUR shall be mixed together on site to regulate the ratio/quantity of SBR, not to exceed 82% by weight in the base mat portion of the system. The single component polyurethane binder shall be mixed with the SBR rubber so that a minimum of 20%, by weight, exists in the final mixture. This mixture is then mechanically installed using the paver.

B. Wearing Course

The 0.5 to 1.5 millimeter EPDM granules shall be mixed with BEYPUR, the single-component structural spray coating. The structural spray shall be made in two (2) uniform applications.

Site Conditions

A. Installation shall not take place if adjacent or concurrent construction generates excessive dust, abrasives or any other by-product that, in the opinion of the installer, would be harmful to the track material, until completion of such works.

B. If, in the opinion of the installer of the synthetic material, the weather and/or climatic conditions are detrimental to the proper installation of the surfacing materials, work shall be delayed until conditions are acceptable. Preferred installation temperature is fifty degrees Fahrenheit and rising. Installation shall be executed only in dry conditions.

Line Striping and Event Markings

Layout

Line striping and event markings shall be laid out in accordance with current IAAF and NCAA rules.

BSS 100
Basemat with Structural Spray
Synthetic Track Surfacing System Specifications

Part 1 – General

1.1 Scope

A. The synthetic surfacing contractor shall furnish all labor, materials, equipment, supervision, and services necessary for the proper completion of all **BSS 100** Synthetic Track Surfacing and related work indicated on the drawings and specified herein.

B. The synthetic surfacing contractor shall refer to the drawings for the required locations of synthetic track surfacing to be installed. All quantities and dimensions shall be field verified by the synthetic surfacing contractor.

1.2 Specific Scope of Work

A. Install an IAAF approved, porous polyurethane synthetic track system comprised of a base layer of polyurethane-bound SBR granules and topped with BEYPUR, a single-component polyurethane structural spray, and EPDM granules.

B. Layout and paint all track lines and event markings as required and specified by current IAAF and NCAA rules.

1.3 Coordination

A. The synthetic surfacing contractor shall coordinate the work specified with an authorized and appointed representative of the owner so as to perform the work during a period and in a manner acceptable to the owner.

Part 2 – Codes and Standards

2.1 Applicable Publications

A. Codes and standards follow the current guidelines set forth by the International Amateur Athletic Federation (IAAF) and the National Collegiate Athletic Association (NCAA), along with the current material testing guidelines as published by the American Society of Testing and Materials (ASTM).

2.2 Performance Standards

The **BSS 100** Track Surfacing System shall exhibit the following minimum performance standards as required by IAAF:

A.	Thickness:	12-13mm or as specified
B.	Force Reduction:	35 to 50%
C.	Vertical Deformation:	0.6 to 2.5mm
D.	Friction:	$\geq$ 0.5 (47 TRRL Scale)
E.	Tensile Strength:	$\geq$ 0.4 MPa
F.	Elongation at Break:	$\geq$ 40%

Part 3 – Quality Assurance

3.1 Contractor and Manufacturer Qualifications

A. The CONTRACTOR and the MANUFACTURER must be the same.

B. The CONTRACTOR must have a minimum of 10 years experience in the installation of poured-in-place, two-component elastomeric polyurethane synthetic track surfacing.

C. The CONTRACTOR shall be able to furnish evidence that they have been in business for a period of not less than 3 years, under the present name, and if required, furnish financial statements for each of the past 3 years.

D. The CONTRACTOR must have installed a minimum of 10 outdoor track facilities in the last 2 years using the exact, IAAF certified, synthetic track surfacing, as specified herein with the contractor bidding this project.

E. The MANUFACTURER must have a minimum of 10 years of experience with compound two-part polyurethane for athletic surfaces.

F. The CONTRACTOR is required to provide documentation that shows the selected specified and installed product meets current IAAF Performance Standards for Synthetic Surfaced Athletics Tracks (Outdoor) and is certified in terms of the IAAF certification system as updated to present day.

G. CONTRACTOR is to provide a list of completed facilities, minimum of 10 which are certified to meet IAAF/NCAA rules & regulations, utilizing the same product as specified.

H. The MANUFACTURER must offer a minimum of seven (7) IAAF Certified Track Systems.

I. All polyurethane components must be MANUFACTURED in the United States in an **ISO 9001:2008 Certified** facility to ensure the highest quality materials.

J. The CONTRACTOR must have installed a minimum of three (3) Class I IAAF Certified outdoor tracks within the United States.

3.2 Submittals

The following submittals must be received with bid submittal:

A. Standard printed specifications of the synthetic track surfacing system to be installed on this project.

B. An affidavit attesting that the synthetic track surfacing material to be installed meets the requirements defined by the manufacturers currently published specifications and any modifications outlined in those technical specifications.

C. A synthetic track surfacing system sample, 12" x 12"in size, of the same synthetic track surfacing system to be installed on this project.

D. A list of completed facilities, including the installing supervisor, of the exact synthetic track surfacing system.

E. A current IAAF Certificate proving the product to be installed meets the current IAAF Performance Standards for Synthetic Surfaced Athletics Tracks (Outdoor).

Part 4 – Materials

4.1 Primers

A. Primers shall be BEYPRIM, a polyurethane-based primer specifically formulated to be compatible with the paved-in-place SBR granules and BEYPUR track surfacing material.

4.2 Black SBR Granules

A. The rubber granules for the base mat shall be recycled SBR rubber, processed and chopped to 1-3mm size, containing less than 1% dust.

4.3 EPDM Granules

A. The rubber granules for the BEYPUR structural spray wearing coats shall be EPDM, synthetic rubber containing a minimum 20% EPDM resin, with a specific gravity of 1.5 ± 0.1 g/cm3. The EPDM rubber shall be the same color as chosen by the owner for the track surface.

4.4 Polyurethane Binder

A. Binder for the black mat shall be BEYPUR, an MDI-based single-component, polyurethane binding agent. The binder shall not have a free TDI monomer level above 0.2% and must be solvent free. The binder must be specially formulated for compatibility with SBR rubber crumb.

4.5 Structural Spray Coating

A. The spray coating shall be BEYPUR, an MDI-based single-component, moisture cured, 100% solids, and pigmented polyurethane, specifically formulated for compatibility with EPDM granules. The coating shall be the color specified by the owner. Pigment intergraded in the field shall not be allowed.

4.6 Line Marking Paint

A. All line and event markings shall be applied by experienced personnel utilizing the manufacturers' recommended pigmented paint compatible with the BSS 100 Track Surfacing material.

Part 5 – Installation

5.1 Subbase Requirements

A. Asphalt Compaction

a. The Synthetic Track Surfacing System shall be laid on an approved subbase. The General Contractor shall provide compaction test results of 92-96% for the installed subbase and asphalt surface.

b. For NCAA certification the following criteria must be followed. The track surface, i.e. asphalt substrate, shall not vary from planned cross slope by more than +/- 0.2%, with a maximum lateral slope outside to inside of 1%,

and a maximum slope of 0.1% in any running direction. The finished asphalt shall not vary under a 10' straight edge more than 1/8".

c. It should be the responsibility of the asphalt-paving contractor to flood the surface immediately after the asphalt is capable of handling traffic. If, after 20 minutes of drying time, there are birdbaths evident, it shall be the responsibility of the architect, in conjunction with the surfacing contractor, to determine the method of correction. No cold tar patching, skin patching or sand mix patching will be acceptable.

B. Asphalt Quality

a. No Recycled Asphalt Pavement (RAP) shall be used in the wear course asphalt mix design as the inclusion of RAP as an off-set to virgin asphalt binder results in a brittle hot-mix asphalt (HMA) with significantly lower tensile strength and fatigue resistance. The sports surfacing contractor will not be held responsible for asphalt failures resulting from the inclusion RAP in the HMA mix design of the wear course.

b. Any oil spills (hydraulic, diesel, motor oil, etc.) must be completely removed, either by chipping out or removing and replacing with new, keyed in asphalt. The minimum depth of any asphalt replacement shall be one inch. The curing time for the asphalt base is 28 days. It shall be the responsibility of the surfacing contractor to determine if the asphalt substrate has cured sufficiently prior to the application of polyurethane surfacing system.

C. Responsibility of Others

a. It shall be the responsibility of the general contractor to determine if the asphalt substrate meets all design specifications, i.e. cross slopes, planarity and specific project criteria. After all the above conditions are met, the synthetic surfacing contractor must, in writing, accept the planarity of the asphalt receiving base, before work can commence.

5.2 Thickness

A. The thickness of the **BSS 100** Synthetic Track Surfacing System shall be 13mm.

5.3 Equipment

A. The **BSS 100** Synthetic Track Surfacing System components shall be processed and installed by specially designed machinery and equipment. A mechanically operated paver with variable regulated speed and thermostatically controlled screed shall be used in the installation of the base mat. The wearing course shall be installed using automatic electronic portioning, which provides continuous mixing and feeding for an accurate, quality controlled installation.

B. No hand mixing is allowed.

5.4 Installation

A. Base Course

The SBR granules and BEYPUR shall be mixed together on site to regulate the ratio/quantity of SBR, not to exceed 82% by weight in the base mat portion of the system. The single component polyurethane binder shall be mixed with the SBR rubber so that a minimum of 20%, by weight, exists in the final mixture. This mixture is then mechanically installed using the paver.

B. Wearing Course

The 0.5 to 1.5 millimeter EPDM granules shall be mixed with BEYPUR, the single-component structural spray coating. The structural spray shall be made in two (2) uniform applications.

5.5 Site Conditions

A. Installation shall not take place if adjacent or concurrent construction generates excessive dust, abrasives or any other by-product that, in the opinion of the installer, would be harmful to the track material, until completion of such works.

C. Apply Synthetic Track Surfacing in dry weather when pavement and atmospheric temperatures are fifty (50) degrees Fahrenheit or above, and are anticipated to remain above fifty (50) degrees Fahrenheit for twenty-four (24) hours after completing application.

D. The maximum temperature cannot exceed 105 degrees at any point during a 24 hour period.

E. Rain cannot be falling. If there is a threat of rain, work shall cease until dry conditions can be re-established on the track pavement. Work is to proceed only when adequate curing can be guaranteed by the manufacturer.

Part 6 – Line Striping and Event Markings

6.1 Layout

A. Line striping and event markings shall be laid out in accordance with current IAAF and NCAA rules.

6.2 Certification

A. Upon completion of the installation, the owner shall be supplied with all necessary computations and drawings, as well as a letter of certification attesting to the accuracy of the markings.

Part 7 – Guarantee

A. The BSS 100 Track Surfacing System shall be fully guaranteed against faulty workmanship and material failure for a period of five (5) years from the date of acceptance. The warranty coverage shall not be prorated nor limited by the amount of usage.

B. Synthetic surfacing material found to be defective as a result of faulty workmanship and/or material failure shall be replaced or repaired at no charge, upon written notification within the guarantee period.

END OF SECTION

REPORT

SYNTHETIC SURFACE PRODUCT TEST

This form must be sent to: technicalofficer@worldathletics.org
Sample delivery address: World Athletics, Technical Manager, 6-8 Av. de la Quarantaine, 98000 MONACO

To obtain a World Athletics Product Certificate for a synthetic surface product, the material must have been proven to conform to the Track and Runway Synthetic Surface Testing Specifications. The testing must be undertaken by an Accredited Laboratory for Synthetic Surface Testing using equipment and testing procedures in accordance with the said Specifications and the results of the testing must be recorded on this pro-forma.

Four sample pieces of the product, each at least 0.5m × 0.5m, should be supplied to the laboratory by the manufacturer. (One sample for testing and three samples for retention by the laboratory under the direct control of World Athletics.)

SYNTHETIC SURFACE PRODUCT			
Product Trade Name	BSS-100		
Name of Manufacturer	Beynon Sports		
Address	16 Alt Road		
City	Hunt Valley	Postal (ZIP) code	21204
Country	USA	State / Province	Maryland
Email	mgasparovic@beynonsports.com	Telephone	+1 410-771-9476

Basic Description		
☐ Full Polyurethane	☒ Spray-coat System	☐ Other:
☐ Sandwich System	☐ Prefabricated	Absolute Thickness: 13.1mm
☒ Porous	☐ Non-porous	

Material Supplier(s)	Beynon Sports (PU), Genan/Liberty Tires (SBR granules), Gezolan/Stargum (EPDM granules)

Surface Composition		Approx. Thickness
Top Layer / Texture:	Structural red spray coating consisting of a pigmented polyurethane intermixed with EPDM granules (0.5-2.0mm)	3mm
Middle Layer(s):		mm
Bottom Layer:	Black SBR granules (1-4 mm) intermixed with PU Binder	10mm

TESTING			
Testing Laboratory:	LABOSPORT SAS		
Tester(s)' Name(s):	Steve BAZEILLE		
Test Report Number:	R211438-A1	Date of Test	12/08/2021

WORLD ATHLETICS

CONTENTS

Product Trade Name	BSS 100	Date of Test	12/08/2021

A. Laboratory Testing

1. Difference between Overall Thickness and Absolute Thickness (in mm to 0.1mm)

Thickness	Test 1	Test 2	Test 3	Test 4	Test 5	Test 6	Average
Overall	13.4	13.2	13.1	13.4	13.3	13.1	13.3
Absolute	13.2	13.0	13.0	13.1	13.2	13.0	13.1
Difference	0.2	0.2	0.1	0.3	0.1	0.1	0.2

**A minimum of four thickness measures shall be taken.*

2. Testing at Standard Laboratory Temperature[Ø]

Recorded Test Drop No.*	Thickness (absolute) mm (to 0.1)	Sample Temperature °C	Shock Absorption % (whole)	Vertical Deformation mm (to 0.1)
1	13.1	23.1	39	2.7
2	13.1	23.1	37	2.3
3	13.1	23.1	37	2.3
Averages	13.1	23.1	37	2.3

Ø Additional testing at other locations on the sample may be undertaken and recorded.

**The average result is determined from two recorded results for FR and three recorded results for VD in accordance with the Test Protocols*

Do any of the individual Shock Absorption and/or Vertical Deformation results fall outside the allowable ranges of 35% to 50% and 0.6mm and 2.5mm for Shock Absorption and Vertical Deformation respectively?

☐ YES X NO

Product Trade Name	BSS100	Date of Test	12/08/2021

3. The Effect of Temperature on Shock Absorption and Vertical Deformation

Thickness (absolute) mm (to 0.1)	Intended sample temperature °C	Actual Sample temperature °C	Shock Absorption % (whole)	Vertical Deformation mm (to 0.1)
13.1	0	0.3	36	2.0
13.1	10	10.1	36	2.1
13.1	20	20.1	36	2.2
13.1	23	23.1	37	2.3
13.1	30	30.3	37	2.3
13.1	40	39.9	38	2.3
13.1	50	50.1	39	2.3

**The thickness should be the same for all temperatures. The absolute thickness recorded for the Product in the Certificate will be the thickness tested at 23°C or, if the thickness was not the same for all temperatures, it will be the greatest thickness tested.*

Do any of the individual Shock Absorption and/or Vertical Deformation results in the temperature range 10°C to 40°C fall outside the allowable ranges of 35% to 50%, and 0.6mm and 2.5mm for Shock Absorption and Vertical Deformation respectively?

☐ YES X NO

If the answer is YES, then the manufacturer should be advised so that they can make the necessary arrangements to ensure that their surface will not fail an in-situ test because of temperature effects on the properties.

4. Friction (Coefficient of Friction or TRRL Scale reading)

Test Number	Friction Reading
1	49
2	50
3	50
4	49
5	50
Average	50

**Average of five readings for the TRRL Pendulum or the average of three readings for the Sliding Resistance Tester.*

Are any of the individual friction readings less than TRRL Scale reading of 47 or coefficient of Friction 0.5? (If so, highlight the readings in **BOLD**.)

☐ YES X NO

Product Trade Name	BSS100	Date of Test	12/08/2021

5. Tensile Tests

		Specimen No*					
Property	Unit	1	2	3	4	5	Average
Tensile Strength	MPa mm (to 0.01)	0.48	0.51	0.52	0.51	0.48	0.50
Elongation	% (whole)	41	41	43	43	42	42

**A minimum of four specimens shall be tested.*

Is the average Tensile Strength or the average Break Elongation % less than 0.5MPa for non-porous surfaces and 0.4MPa for porous surfaces, and 40% respectively?

☐ YES X NO

B. Attachments

X A reference sample of 10cm × 10cm of the material tested is to be supplied with the report to World Athletics.

C. Conclusions

The synthetic surface product was tested in accordance with the World Athletics Track and Runway Synthetic Surface Testing Specifications as incorporated in the Track and Field Facilities Manual.

I hereby certify that all information provided in the report is accurate and is the result of well-conducted laboratory testing.

I consider that the synthetic surface product meets the requirements for a Product Certificate.

X YES ☐ NO

If the answer is NO, please state below the reason(s) why the synthetic surface product does not meet the Track and Runway Synthetic Surface Testing Specifications fully.

Authorised Director:	Benoît Bossuet	
Date	Signature (scanned accepted)	
12/08/2021		

Certificate US15/842048

The management system of

Beynon Sports Surfaces, Inc.

16 Alt Road
Hunt Valley, MD 21030, United States

has been assessed and certified as meeting the requirements of

ISO 9001:2015

For the following activities:

The formulation, production, distribution and technical support of Polymer-based Chemical Products for the Construction and Surfacing Industries.

Further clarifications regarding the scope of this certificate and the applicability of ISO 9001:2015 requirements may be obtained by consulting the organization.

This certificate is valid from 13 February 2021 until 13 February 2024 and remains valid subject to satisfactory surveillance audits.
Recertification audit due a minimum of 60 days before the expiration date.
Issue 3. Certified since February 2015.

The audit leading to this certificate commenced on 14/12/2020.
Previous issue certificate validity date was until 13/02/2021.

Additional site details are listed on subsequent pages.

Authorized by:

Dan Seal

Dan Seal
Technical Accreditation Manager, Certification & Business Enhancement North America
SGS North America, Inc.
201 Route 17 North, Rutherford, NJ 07070, USA
t (201) 508-3000 f (201) 935-4555 www.us.sgs.com

This certificate remains the property of SGS and shall be returned upon request

BSS 200

IMPERMEABLE PAVED-IN-PLACE SYNTHETIC TRACK SYSTEM

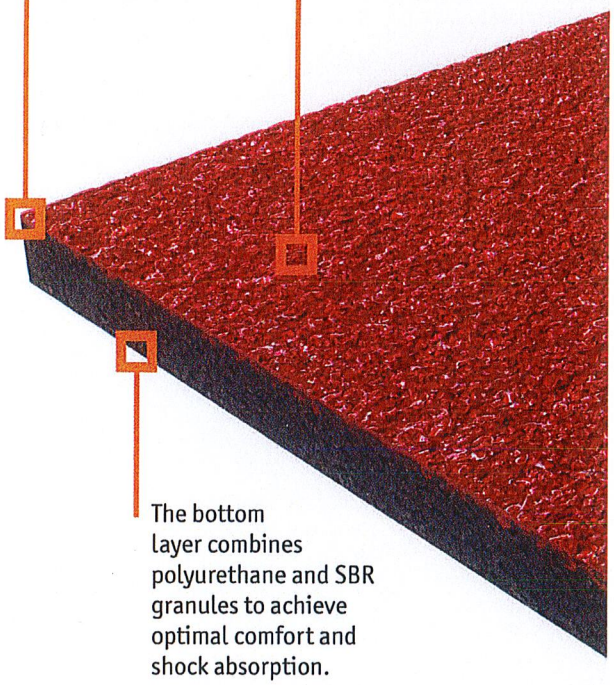
Information
Beynon Sports Surfaces
16 Alt Road Hunt Valley, Maryland 21030
(410) 771-9473 | www.beynonsports.com

BEYNON®
A Tarkett Sports Company

THE ULTIMATE
SURFACE EXPERIENCE

BSS 200

IMPERMEABLE PAVED-IN-PLACE SYNTHETIC TRACK SYSTEM



Achieve optimal performance while maximizing your value with the BSS 200 - a premier micro-encapsulated track system built for every budget and virtually every level of competition.

The BSS 200 starts with a paved-in-place base layer of high performance polyurethane and SBR rubber granules. It's then coated with our **two-component polyurethane sealer,** making the surface **impermeable.** Pigmented EPDM granules and single component polyurethane structural spray combine to form the spray-applied top layer. The environmentally friendly **BEYPUR 160 water-based structural spray** is another option that can be applied to the top layer that only Beynon Sports Surfaces offers.

Perfect for **training or competition,** the BSS 200 is guaranteed by a comprehensive five-year warranty.

- Low-maintenance
- Water can't penetrate the surface and cause damage
- Environmentally friendly BEYPUR 160 water-based structural spray
- Optimal performance while maximizing your value

AN IMPERMEABLE TRACK SYSTEM THAT DELIVERS ALL-WEATHER PERFORMANCE

IAAF CERTIFIED PRODUCT

BEYNON®
A Tarkett Sports Company

THE ULTIMATE SURFACE EXPERIENCE

BSS-200
Synthetic Track Surfacing System
System Specifications

PART 1- GENERAL

1.1 Scope

The synthetic surfacing contractor shall furnish all labor, materials, equipment, supervision, and services necessary for the proper completion of all Synthetic Track Surfacing and related work indicated on the drawings and specific herein.

The synthetic surfacing contractor shall refer to the drawings for the required locations of synthetic track surfacing to be installed. All quantities and dimensions shall be field verified by the synthetic surfacing contractor.

1.2 Specific Scope Of Work

A. Install an impermeable polyurethane synthetic track system comprised of a base layer of polyurethane bound SBR rubber granules, an impermeable layer (seal coat) of a two-component urethane, and toped with a spray-applied coating of single-component polyurethane and EPDM granules.

B. Layout and paint all track lines and event markings as required and specified by current IAAF and NCAA rules.

1.3 Coordination

The synthetic surfacing contractor shall coordinate the work specified with an authorized and appointed representative of the owner so as to perform the work during a period and in a manner acceptable to the owner.

PART 2 – CODES AND STANDARDS

2.1 Applicable Publications

Codes and standards follow the current guidelines set forth by the International Amateur Athletic Federation (IAAF) and the National Collegiate Athletic Association (NCAA), along with the current material testing guidelines as published by the American Society of Testing and Materials (ASTM).

2.2 Performance Standards

The new synthetic track surfacing system shall exhibit the following minimum performance standards (ASTM).

Thickness: (12-13mm) or as specified
Shore A Hardness: 55± 5 (ASTM D-2240)
Elongation at Break: –90% (ASTM D-412)
Tensile Strength: 0.75 N/mm² (ASTM D-412)
Compression Set Recovery: 90%-95% over 24hr period (ASTM D-412)
Abrasion Resistance: 0.25 grams loss after 1000 cycles (ASTM D-501)
Coefficient of Friction: Dry: 0.7-0.75, Wet: 0.6-0.65 (ASTM D-1984)
Resilience: 37%-39% (ASTM D-2632)
Tear Resistance: 50-65 psi (ASTM D-624)

PART 3 – QUALITY ASSURANCE

3.1 Contractor Qualifications

A. The synthetic surfacing contractor must be in the business for five years in the installation of elastomeric polyurethane synthetic track surfacing.

B. The synthetic surfacing contractor must have installed a minimum of five outdoor track facilities within the last two years.

3.2 Submittals

The following submittals must be received with bid submittal:

A. Standard printed specifications of the synthetic track surfacing system to be installed on this project.
B. An affidavit attesting that the synthetic track surfacing material to be installed meets the requirements defined by the manufacturers currently published specifications and any modifications outlined in those technical specifications.
C. A synthetic track surfacing system sample, 6" x 6" in size, of the same synthetic surfacing system to be installed on this project.
D. An installation list of outdoor track facilities installed on the last two years using the exact synthetic track surfacing system specified herein.

PART 4 – MATERIALS

4.1 Primers

Primers must be polyurethane-based, specifically formulated to be compatible with the paved SBR base and track surfacing material.

4.2 Black SBR Granules

The rubber granules for the base mat shall be recycled SBR rubber, processed and chopped to 1-4mm size, containing less than 4% dust.

4.3 EPDM Granules

The rubber granules for the structural spray wearing coats shall be EPDM peroxide cured, (.5-1.5mm) synthetic rubber containing a minimum 20% EPDM resin, with a specific gravity of 1.5 ± 0.1 g/cm³. The EPDM rubber shall be the same color as chosen by the owner for the track surface.

4.4 Polyurethane Binder

Binder for the black mat shall be an MDI-based single-component, polyurethane binding agent. The binder shall not have a free TDI monomer level above 0.2%, must be clear in color and must be solvent free. The binder must be specially formulated for compatibility with SBR rubber crumb.

4.5 Structural Spray Coating

The spray coating shall be an MDI-based single-component, moisture cured, 100% solids, pigment polyurethane, specifically formulated for compatibility with EPDM granules. The coating shall be the color specified by the owner. Pigment intergraded in the field shall not be allowed.

4.6 Seal Coat

The two-component polyurethane resin for this application shall be pigmented to match the color of the wear coat. The material shall be applied by a squeegee to insure that the black mat is sealed.

4.7 Line Marking Paint

All line and event markings shall be applied by experienced personnel utilizing a single-component, moisture cured, aliphatic polyurethane paint compatible with the synthetic track surfacing.

PART 5 – INSTALLATION

5.1 Subbase

The Synthetic Track Surfacing System shall be laid on approved subbase. The general contractor shall provide compaction test results of 95% or greater for the installed and asphalt surface.

For NCAA and IAAF certification the following criteria must be followed. The track surface, i.e. asphalt substrate, shall have a maximum lateral slope outside to inside of 1.0% and a maximum slope of 0.1% in the running direction. The finished asphalt shall not vary under a 10' straight edge more than 1/8".

It shall be the responsibility of the asphalt-paving contractor to flood the surface immediately after the asphalt is capable of handling traffic, but within 24 hours. If, after 20 minutes of drying time, there are birdbaths evident, it shall be the responsibility of the architect, in conjunction with the surfacing contractor to determine the method correction. No cold tar patching, skin patching or sand mix patching will be acceptable.

Any oil spills (hydraulic, diesel, motor oil, etc.) must be completely removed either by chipping out or removing and replacing with new, keyed in asphalt. The minimum depth of any asphalt replacement shall be 1 inch. The curing tine for the asphalt base is 28 days. It shall be the responsibility of the surfacing contractor to determine if the asphalt substrate has cured sufficiently prior to the application pf polyurethane surfacing system.

It shall be the responsibility of the general contractor to determine if the asphalt substrate meets all design specifications, i.e. cross slopes, planarity and specific project criteria. After all the above conditions are met, the synthetic surfacing contractor must, in writing, accept the planarity of the asphalt receiving base before work can commence.

5.2 Thickness

The thickness of the Synthetic Track Surfacing System shall be 13mm.

5.3 Equipment

The Synthetic Track Surfacing System components shall be processed and installed is specially designed machinery and equipment. A mechanically operated paver with variable regulated speed and thermostatically controlled screed shall be used in the installation of the base mat. The wearing course shall be installed using automatic electronic portioning, which provides continuous mixing and feeding for an accurate, quality controlled installation.

5.4 Installation

A. Base Course

The SBR granules and polyurethane shall be mixed together on site to regulate the ratio/quantity of SBR, not to exceed 80% in the base mat portion of the system. The single component polyurethane binder shall be mixed with the SBR rubber so that a minimum of 20%, by weight, exists in the final mixture. This mixture is then mechanically installed using the paver.

B. Seal Coat

The two components are mixed at the prescribed ratio homogeneously with a suitable mixing device. The coating is squeegee applied to the base mat, making it impermeable.

C. Wearing Course

The 0.5 to 1.5mm EPDM granules shall be mixed with the single-component structural spray coating. The structural spray shall be made in two uniform applications.

5.5 Site Conditions

A. Installation shall not take place if adjacent or concurrent construction generates excessive dust, abrasives or any other by-product that, in the opinion of the installer, would be harmful to the track material, until completion of such works.

B. If, in the opinion of the installer of the synthetic material, the weather and/or climatic conditions are detrimental to the proper installation of the surfacing materials, work shall be delayed until conditions are acceptable. Preferred installation temperature is fifty degrees Fahrenheit and rising. Installation shall be executed only in dry conditions.

PART 6 – LINE STRIPING AND EVENT MARKINGS

6.1 Layout

Line striping and event markings shall be laid out in accordance with current IAAF and NCAA rules.

6.2 Certification

Upon completion of the installation, the owner shall be supplied with all necessary computations and drawings, as well as a letter of certification attesting to the accuracy of the markings.

PART 7 – GUARANTEE

Synthetic track surfacing system shall be fully guaranteed against faulty workmanship and material failure for a period of 5 years from the date of acceptance.

Synthetic surfacing material found to be defective as a result of faulty workmanship and/or material failure shall be replaced or repaired at no charge upon written notification within the guarantee period.

BEYNON SPORTS SURFACES

16 Alt Rd
Hunt Valley, MD 21030
410.771.9473

International Association of Athletics Federations

Product Certificate

The IAAF is pleased to certify hereby that the following product:

Product's Trade Name: Synthetic surface, BSS-200

Description, Colour / Absolute Thickness: Spray coat, 13.5mm – non-porous

Company Name, Country: Beynon Sports Surfaces, Inc., USA

Catalogue Number: -

IAAF Certification Number: S-10-0108

has been tested and meets the technical requirements for use in all international athletics competitions.

Test Report: No. R180841-A1, 5 February 2019, Labosport (FRA)

Valid from: 1 February 2019

Until the last day of: February 2023

This certificate is issued in accordance with the terms and conditions of the IAAF Certification System of track and field facilities, implements and competition equipment.

JORGE SALCEDO
IAAF Technical Committee Chairman

IAAF CERTIFIED PRODUCT

WORLD ATHLETICS

PRODUCT CERTIFICATE

World Athletics is pleased to certify that the following product meets all the technical requirements of the World Athletics Rules for the relevant competitions.

Product's Trade Name:

Synthetic surface - BSS-300

Description, Colour/Absolute Thickness:

Sandwich, 13.8mm

Company Name, Country:

Beynon Sports Surfaces, Inc., USA

Catalogue Number:

-

Certification Number:

S-04-0046

Test Report by and on:

R210890-A1, Labosport (FRA), 20 May 2021

Note:

-

Date of Issue:

1 June 2021

Date of Expiry:

June 2025

Issued in accordance with the terms and conditions of the World Athletics Certification System

Jon Ridgeon
World Athletics CEO

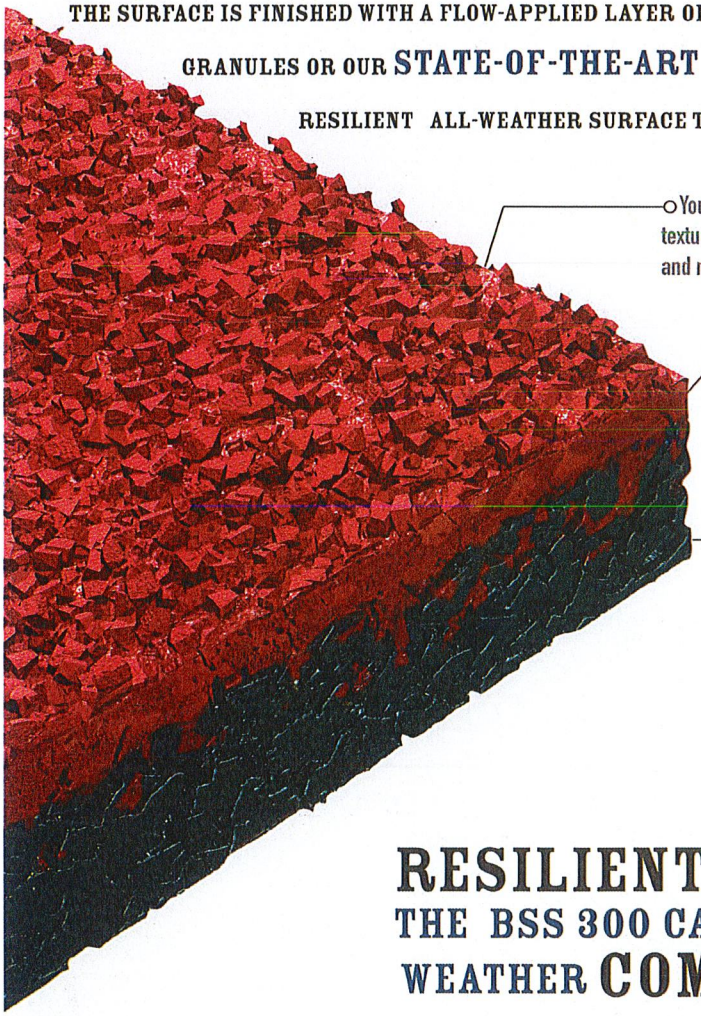
WORLD ATHLETICS CERTIFIED PRODUCT

BSS 300

BEYNON SPORTS SURFACES

SANDWICH SYNTHETIC TRACK SYSTEM

TAKE YOUR TRACK SYSTEM TO THE NEXT LEVEL WITH THE BSS 300—A PAVED-IN-PLACE SYNTHETIC SURFACE OF IMPERMEABLE DESIGN. BUILT ON **MORE THAN 30 YEARS OF BEYNON EXPERIENCE** AND BACKED BY A FIVE YEAR WARRANTY, THIS DUAL DUROMETER SYSTEM FEATURES A POLYURETHANE-BOUND BLACK RUBBER BASE MAT, TOPPED WITH A TWO-COMPONENT SEAL COAT. THE SURFACE IS FINISHED WITH A FLOW-APPLIED LAYER OF POLYURETHANE AND YOUR CHOICE OF CONVENTIONAL EMBEDDED EPDM GRANULES OR OUR **STATE-OF-THE-ART ENCAPSULATED TEXTURE**. THE RESULT IS A DURABLE, RESILIENT ALL-WEATHER SURFACE THAT MEETS IAAF PERFORMANCE STANDARDS FOR ATHLETIC TRACKS.



CERTIFIED PRODUCT IAAF

MEETS IAAF PERFORMANCE SPECIFICATIONS

RESILIENT. DURABLE. IMPERMEABLE.

THE BSS 300 CAN WITHSTAND **WHATEVER** WEATHER **COMES ITS WAY**

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BSS-300
Synthetic Track Surfacing System

System Specifications

PART 1 – GENERAL

1.1 Scope

The synthetic surfacing contractor shall furnish all labor, materials, equipment, supervision and services necessary for the proper completion of all Synthetic Track Surfacing and related work indicated on the drawings and specified herein.

The synthetic surfacing contractor shall refer to the drawings for the required locations of synthetic track surfacing to be installed. All quantities and dimensions shall be field verified by the synthetic surfacing contractor.

1.2 Specific Scope Of Work

A. Install an IAAF approved impermeable polyurethane synthetic track system consisting of SBR Rubber and a single-component polyurethane base and a poured-in-place, two-component U.V. stabilized elastomeric polyurethane wearing layer with an embedded textured finish.

B. Layout and paint all track lines and event markings as required and specified by current IAAF and NCAA rules.

1.3 Coordination

The synthetic surfacing contractor shall coordinate the work specified with an authorized and appointed representative of the owner so as to perform the work during a period and in a manner acceptable to the owner.

PART 2 – CODES AND STANDARDS

2.1 Applicable Publications

Codes and standards follow the current guidelines set forth by the International Amateur Athletic Federation (IAAF) and the National Collegiate Athletic Association (NCAA), along with current material testing guidelines as published by the American Society of Testing and Materials (ASTM).

2.2 Performance Standards

The new synthetic track surfacing system shall exhibit the following minimum performance standards as required by IAAF.

A. Thickness 12mm, Minimum 10mm
B. Force Reduction 35 to 50%
C. Modified Vertical Deformation 0.6 to 1.8mm
D. Friction 47 TRRL Skid Resistance
E. Tensile Strength 0.5MPa
F. Elongation at Break ≥ 40%

PART 3 – QUALITY ASSURANCE

3.1 Contractor Qualifications

A. The synthetic surfacing contractor must have a minimum of seven years experience in the installation of poured-in-place, two-component elastomeric polyurethane synthetic track surfacing.

B. The synthetic surfacing contractor must have installed a minimum of six outdoor track facilities in the last two years using the exact Synthetic Track Surfacing System as specified herein with the firm bidding the project.

C. The polyurethane manufacturer must have a minimum of 10 years of experience with compound two-part polyurethane for athletic surfaces.

D. The supervisor for the installation must have installed a minimum of 20 two-component polyurethane tracks in the last 3 years.

3.2 Submittals

The following submittals must be received with bid submittal

A. Standard printed specifications of the synthetic track surfacing system to be installed on this project.

B. An affidavit attesting that the synthetic track surfacing material to be installed meets the requirements defined by the manufacturers currently published specifications and any modifications outlined in those technical specifications.

C. A synthetic track surfacing system sample, 6" x 6" in size, of the same synthetic surfacing system to be installed on this project.

D. An installation list of outdoor track facilities installed in the last two years using the exact synthetic track surfacing system specified herein.

E. Test results from an approved IAAF Testing Laboratory confirming compliance to the performance of athletic tracks test according to the IAAF.

PART 4 – MATERIALS

4.1 Elastomeric Polyurethane

Two-component U.V. stabilized elastomeric polyurethane compounded from polyol and isocyanate components, based on one hundred percent Methylene Diphenyl Isocyanate (MDI). No Toluene Diisocyanate Isocyanate (TDI) will be allowed.

The elastomeric polyurethane shall be red in color.

4.2 EPDM Granulate

The EPDM granulates shall be 1 to 3mm in size and peroxide cured.

The EPDM granulates and the U.V. stabilized elastomeric polyurethane shall be color matched.

4.3 Rubber Granulate of the Base Course

Styrene Butadiene Rubber (SBR) processed ground to a graded sized of 1 to 3mm.

A maximum of 80%, by weight of the paved-in-place base layer, of SBR will be allowed.

4.4 Single Component Polyurethane Binder

A minimum of 20%, by weight of the paved-in-place base layer.

4.5 Seal Coat

The granular SBR and binder layer shall be sealed with a thixotropic two-component polyurethane.

4.6 Line Marketing Paint

Single-component, moisture cured, aliphatic polyurethane paint

PART 5 – INSTALLATION

5.1 Subbase

The Synthetic Track Surfacing System shall be laid on an approved subbase. The general contractor shall provide compaction test results of 95% or greater for the installed subbase and asphalt surface.

For NCAA and IAAF certification the following criteria must be followed. The track surface, i.e. asphalt substrate, shall have a maximum lateral slope outside to inside of 1.0% and a maximum slope of 0.1% in the running direction. The finished asphalt shall not vary under a 10' straight edge more than 1/8".

It shall be the responsibility of the asphalt-paving contractor to flood the surface immediately after the asphalt is capable of handling traffic, but within 24 hours. If, after 20 minutes of drying time, there are birdbaths evident, it shall be the responsibility of the architect, in conjunction with the surfacing contractor to determine the method of correction. No cold tar patching, skin patching or sand mix patching will be acceptable.

Any oil spills (hydraulic, diesel, motor oil, etc.) must be completely removed, either by chipping out or removing and replacing with new, keyed in asphalt. The minimum depth of any asphalt replacement shall be one inch. The curing time for the asphalt base is 28 days. It shall be the responsibility of the surfacing contractor to determine if the asphalt substrate has cured sufficiently prior to the application of polyurethane surfacing system.

It shall be the responsibility of the general contractor to determine if the asphalt substrate meets all design specifications, i.e. cross slopes, planarity and specific project criteria. After all the above conditions are met, the synthetic surfacing contractor must, in writing, accept the planarity of the asphalt receiving base, before work can commence.

5.2 Thickness

The thickness of the Synthetic Track Surfacing System shall be 13 mm.

5.3 Equipment

The Synthetic Track Surfacing System components shall be processed and installed by specially designed machinery and equipment. A mechanically operated paver with variable regulated speed and thermostatically controlled screed shall be used in the installation of the base mat. The wearing course shall be installed using automatic electronic portioning, which provides continuous mixing and feeding for an accurate, quality controlled installation.

5.4 Installation

A. Base Course

The SBR granules and polyurethane shall be mixed together on site to regulate the ration/quantity of SBR, not to exceed 80% in the base mat portion of the system. The single component polyurethane binder shall be mixed with the SBR rubber so that a minimum of 20%, by weight, exists in the final mixture. This mixture is then mechanically installed using the paver.

B. Seal Coat

The granular layer shall be sealed with a thickened two-component polyurethane, squeegee applied to ensure a non-permeable base layer.

C. Wearing Course

The 1 to 3mm EPDM granules shall be integrated into poured-in-place U.V. stabilized elastomeric polyurethane to achieve the full depth of the 5mm wearing course. The resilient embedded textured finish shall be a dense matrix of exposed EPDM granules. The homogeneous wearing course shall be applied in situ with the base course.

5.5 Site Conditions

A. Installation shall not take place if adjacent or concurrent construction generates excessive dust, abrasives or any other by-product that, in the opinion of the installer, would be harmful to the track material, until completion of such works.

B. If, in the opinion of the installer of the synthetic material, the weather and/or climatic conditions are detrimental to the proper installation of the surfacing materials, work shall be delayed until conditions are acceptable. Preferred installation temperature is fifty degrees Fahrenheit and rising. Installation shall be executed only in dry conditions.

PART 6 – LINE STRIPING AND EVENT

6.1 Layout

Line striping and event markings shall be laid out in accordance with current IAAF and NCAA rules.

6.2 Certification

Upon completion of the installation, the owner shall be supplied with all necessary computations and drawings as well as a letter of certification attesting to the accuracy of the markings.

PART 7 – GUARANTEE

Synthetic track surfacing system shall be fully guaranteed against faulty workmanship and material failure for a period of five (5) years from the date of acceptance.

Synthetic surfacing material found to be defective as a result of faulty workmanship and/or material failure shall be replaced or repaired at no charge, upon written notification within the guarantee period.

BEYNON SPORTS SURFACES

16 Alt Rd
Hunt Valley, MD 21030
410.771.9473

13mm BSS™ 300

LEED CREDITS

MR Credit 4.1—Recycled Content — 1 Point

GENERAL DESCRIPTION

Use materials with recycled content such that the sum of the post-consumer recycled content plus one-half of the pre-consumer content constitutes at least 10% (based on cost) of the total value of materials in the project.

MR Credit 4.2—Recycled Content — 1 Point

GENERAL DESCRIPTION

Use materials with recycled content such that the sum of the post-consumer recycled content plus one-half of the pre-consumer content constitutes at least 20% (based on cost) of the total value of materials in the project.

EQ Credit 4.2—Low-Emitting Materials, Paints — 1 Point

GENERAL DESCRIPTION

Reduce the quantity of indoor air contaminants that are odorous, irritating and/or harmful to the comfort and well-being of installers and occupants.

RRW 6.0—Rapidly Renewable Materials — 1 Point

GENERAL DESCRIPTION

Use rapidly renewable building materials and products, made from plants that are typically harvested within a 10-year cycle or shorter, for 2.5% of the total value of all building materials and products used in the project, based on cost of the total materials value.

SS Credit 7.1—Heat Island Reduction — 1 Point

GENERAL DESCRIPTION

Provide any combination of the following strategies for 50% of the site landscape: shade, paving materials with a Solar Reflective Index of at least 29 or open grid pavement system.

THE FOLLOWING CREDITS MAY APPLY IF PROJECT SITE IS WITHIN 500 MILES FROM HUNT VALLEY, MD MANUFACTURING PLANT OR FROM RUBBER SUPPLIERS FACICILTY

MR Credit 5.1—Local/Regional Materials — 1 Point

GENERAL DESCRIPTION

Use building materials or products that have been extracted, harvested or recovered, as well as manufactured, within 500 miles of the project site for a minimum of 10% based on cost of the total materials value.

MR Credit 5.2—Local/Regional Materials — 1 Point

GENERAL DESCRIPTION

Use building materials or products that have been extracted, harvested or recovered, as well as manufactured, within 500 miles of the project site for a minimum of 20% based on cost of the total materials value.

ISO 9001-2008 CERTIFIED

The ISO 9001:2008 certification means that Beynon has demonstrated its ability to consistently provide polyurethane products that meet and exceed customer requirements and aim to enhance customer satisfaction through the effective application of an internal quality system.

BEYNON®
A Tarkett Sports Company
THE ULTIMATE SURFACE EXPERIENCE
16 Alt Road Hunt Valley, Maryland 21030
(888) 240-3670 | www.beynonsports.com

BEYPUR 300

1-C Aromatic Polyurethane Binder

TECHNICAL DATA SHEET

BEYPUR 300 is a one component, solvent free, aromatic moisture cure polyurethane prepolymer which exhibits excellent binding characteristics, hydrolytical stability, and adhesive properties.

BEYPUR 300 is specifically formulated to have an extended cure time.

BEYPUR 300 is designed for use as a binder for SBR, EPDM and Butyl rubber granules for the production of resilient pervious systems. The product can be modified to accelerate curing properties.

PHYSICAL PROPERTIES

	Imperial	Metric
Solids (by Volume)	100%	100%
VOC Content	0 lbs/gal	0 g/L
Weight	9.1 lbs/gal	1.09 g/cm^3
Packaging	Totes (2,400 lbs) Drums (475 lbs)	Totes (1088 kgs) Drums (216 kgs)
Flash Point	> 370°F	> 187°C
Viscosity	~ 3,000 cps (74°F)	~ 3,000 cps (23°C)

APPLICATION GUIDELINES

Consult with a Beynon Technical Representative for detailed application instructions.

The surface being coated must be clean, dry, free of oil, grease, dirt and any foreign residue.

BEYPUR 300 is ready for use as supplied and should be mixed thoroughly with the dry rubber granules prior to application

BEYPUR 300 can be applied with specially designed pavers or hand trowels in order to maintain a uniform, level surface. The cure time varies with temperature and humidity. Cure time is accelerated by higher temperatures and higher relative humidity.

STORAGE

Keep material sealed until ready for use to prevent atmospheric moisture from contaminating material. Store material at temperatures between 40-104°F (5-40°C) and in a dry well ventilated area. Product shelf life is ~ 12 months in sealed container.

HANDLING

Consult Safety Data Sheets before handling or using these materials. Always wear the recommended personal protective equipment. Avoid contact with eyes, skin, and clothing. Adequate ventilation is required during the application process.

ISO 9001:2015 CERTIFIED

The ISO 9001:2015 certification means that Beynon has demonstrated its ability to consistently provide polyurethane products that meet and exceed customer requirements and aim to enhance customer satisfaction through the effective application of an ISO 9001:2015 Quality Management System.

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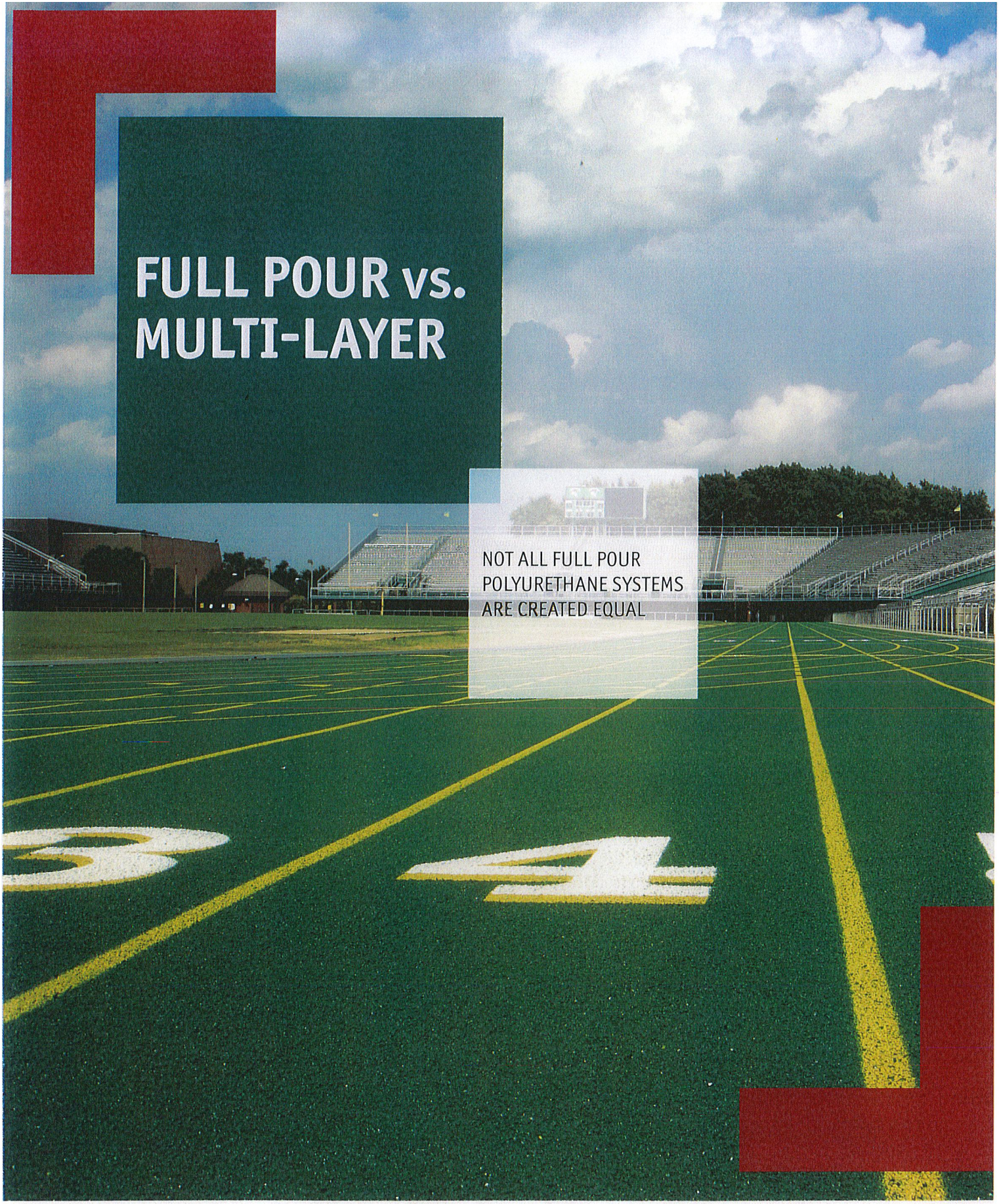
Rev. 1 10/15/18



FULL POUR vs. MULTI-LAYER

NOT ALL FULL POUR POLYURETHANE SYSTEMS ARE CREATED EQUAL

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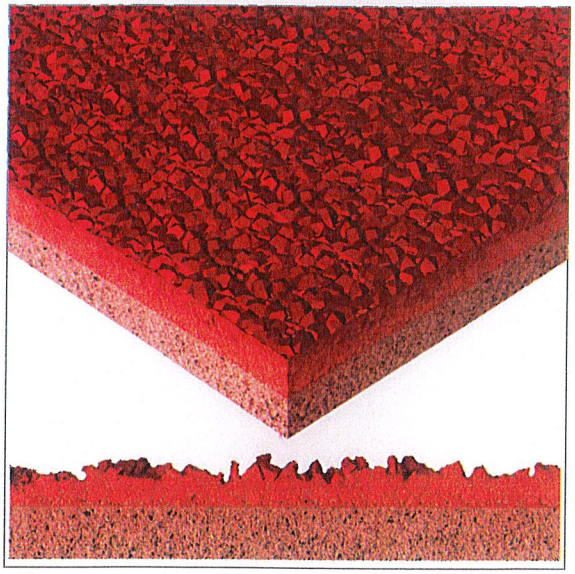
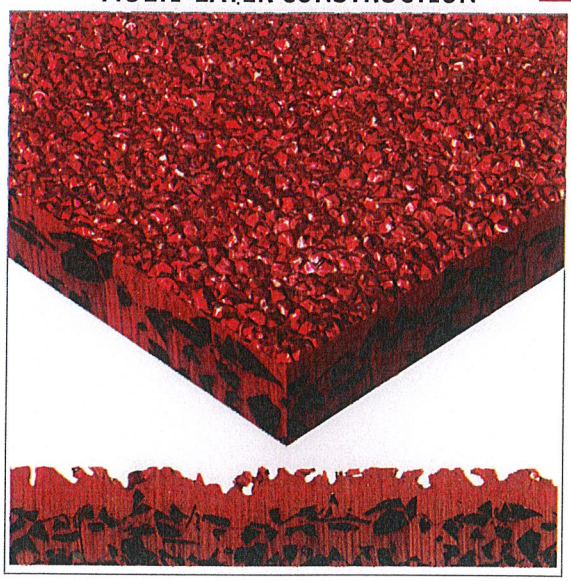
BSS 1000 CONSTRUCTION



MULTI-LAYER CONSTRUCTION



There are full pour polyurethane track and field systems, and then there are Beynon Sports' Full Pour Polyurethane Systems such as our BSS 1000, BSS 2000 and BSS 3000 track and field systems. When comparing similarly priced surfaces, our competitors' track and field surfaces include up to 15% less two component polyurethane than Beynon Sports, and have 2-3 times the amount of Styrene Butadiene Rubber (SBR).

The performance and customization of a full pour polyurethane track and field system is directly correlated to the quality and quantity of the two-component polyurethane utilized in the system. While others claim that their full pour polyurethane systems are the same as Beynon Sports' products, in fact, their track and field surfaces are filled with inexpensive and low performance SBR aggregate. This lowers the cost and reduces the performance of the overall surface for the athletes, as well as the lifecycle of the product for the owner.

Beynon Sports never compromises on quality, which is why two of our full pour polyurethane systems, the BSS 2000 and BSS 3000, contain no SBR filler. It's also why the most prestigious track and field venues in the world select Beynon.

Beynon Sports. Accept No Substitutes.

Performance Comparison by Construction of Total System

	BSS 1000	CONIPUR M	REKORTAN
Weight PSY	29.30 lbs	32.82 lbs	32.90 lbs
Percentage of Two-Component Polyurethane	65%	45%	47%
Percentage of Ethylene Propylene Diene Monomer (EPDM)	23%	16%	15%
Percentage of Styrene Butadiene Rubber (SBR)	12%	39%	38%
Certified by the IAAF	Yes @ 13mm	Yes @14mm	Yes @ 15mm

*Beynon Sports' IAAF Certified BSS 2000 and BSS 3000 full pour polyurethane surfaces have no SBR filler whatsoever.

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A Tarkett Sports Company

THE ULTIMATE
SURFACE EXPERIENCE

BSS 1000
10mm Embedded
Synthetic Track Surfacing System
System Specifications

Part 1 – General

1.1 – Scope

The synthetic surfacing contractor shall furnish all labor, materials, equipment, supervision and services necessary for the proper completion of the ***BSS 1000 Dual Durometer*** *synthetic track surfacing and related work indicated on the drawings and specified herein.*

The synthetic surfacing contractor shall refer to the drawings for the required locations of synthetic track surfacing to be installed. All quantities and dimensions shall be field verified by the synthetic surfacing contractor.

1.2 – Specific Scope of Work

A. *Install a full depth poured-in-place two component, UV stabilized elastomeric polyurethane Dual Durometer synthetic surfacing system with embedded textured finish.*

B. *Layout and paint all track lines and event markings as required and specified by current IAAF and NCAA rules.*

1.3 - Coordination

The synthetic surfacing contractor shall coordinate the work specified with an authorized and appointed representative of the owner so as to perform the work during a period and in a manner acceptable to the owner.

Part 2 – Codes and Standards

2.1 – Applicable Publications

Codes and standards follow the current guidelines set forth by the International Amateur Athletic Federation (IAAF) and the National Collegiate Athletic Association (NCAA), along with the current material testing guidelines as published by the American Society of Testing and Materials (ASTM).

2.2 – Performance Standards

The new synthetic track surfacing system shall exhibit the following minimum performance standards:

A.	Thickness	Average - ≥ 10mm Minimum - 10mm
B.	Force Reduction	35 to 50
C.	Modified Vertical Deformation	0.6 to 1.8
D.	Friction: TRRL Skid Resistance	≥ 47
E.	Tensile Strength	≥ 0.5
F.	Elongation at break	≥ 40

Part 3 – Quality Assurance

3.1 – Contractor Qualifications

A. *The CONTRACTOR must have a minimum of 5 years of experience in the installation of full depth poured-in-place two component elastomeric polyurethane synthetic track surfacing.*

B. *The CONTRACTOR and MANUFACTUER must have a minimum of 10 years of experience with the compounding of two-part polyurethane for athletic surfaces.*

C. *The INSTALLATION SUPERVISOR must have installed a minimum of 5 full depth two component polyurethane tracks with embedded texture in the last 3 years. A reference list must be submitted.*

D. *The MANUFACTURER must offer a minimum of four (4) IAAF Certified Track Systems.*

3.2 – Submittals

The following submittals must be received with bid submittal:

A. *Standard printed specifications of the synthetic track surfacing system to be installed on this project.*

B. *An affidavit attesting that the synthetic track surfacing material to be installed meets the requirements defined by the manufacturers currently published specifications and any modifications outlined in those technical specifications.*

C. *A synthetic track surfacing system sample, 12" x 12"in size, of the same synthetic track surfacing system to be installed on this project.*

D. *A list of completed facilities, including the installing supervisor, of the exact Dual Durometer synthetic track surfacing system.*

Part 4 – Materials

4.1 – Elastomeric Polyurethane

A. *BEYPUR, the two-component U.V. stabilized elastomeric polyurethane compounded from polyol and isocyanate components, based on one hundred percent Methylene Diphenyl Isocyanate (MDI). No Toluene Diisocyanate Isocyanate (TDI) will be allowed.*

B. *The elastomeric polyurethane shall be red in color.*

4.2 – EPDM Granulate

A. *The EPDM granulates shall be 1 to 3mm in size and peroxide cured.*

B. *The EPDM granulates and the U.V. stabilized elastomeric polyurethane shall be color matched.*

4.3 – Rubber Granulate

A. *Fine mesh Styrene Butadiene Rubber (SBR) processed ground to a graded size not to exceed 20 mesh in size.*

B. *A maximum of twenty percent, by weight of the SBR will be allowed in the force reduction layer.*

4.4 – Line Marking Paint

A. *Single-component, moisture cured, aliphatic polyurethane paint.*

Part 5 – Installation

5.1 – Subbase

The synthetic track surfacing system shall be laid on an approved subbase. The General Contractor shall provide compaction test results of 95% or greater for the installed subbase and asphalt surface.

For NCAA certification the following criteria must be followed. The track surface, i.e. asphalt substrate, shall not vary from planned cross slope by more than + .2%, with a maximum lateral slope outside to inside of 1%, and a

maximum slope of 0.1% in any running direction. The finished asphalt shall not vary under a 10' straight edge more than 1/8".

It should be the responsibility of the asphalt paving contractor to flood the surface immediately after the asphalt is capable of handling traffic, but within 24 hours. If, after 20 minutes of drying time, there are birdbaths evident, it shall be the responsibility of the architect, in conjunction with the surfacing contractor, to determine the method of correction. No cold tar patching, skin patching or sand mix patching will be acceptable.

Any oil spills (hydraulic, diesel, motor oil, etc.) must be completely removed and replaced with either polyurethane or new, keyed in asphalt. The minimum curing time for the asphalt base is 28 days. It shall be the responsibility of the surfacing contractor to determine if the asphalt substrate has cured sufficiently prior to the application of the polyurethane surfacing system.

It shall be the responsibility of the general contractor to determine if the asphalt substrate meets all design specifications, i.e. cross slopes, planarity and specific project criteria. After all the above conditions are met, the synthetic surfacing contractor must, in writing, accept the planarity of the asphalt receiving base, before work can commence.

5.2 – Thickness

Total thickness of the ***BSS 1000 Dual Durometer*** *synthetic track surfacing system shall average 10mm.*

5.3 – Equipment

The ***BSS 1000 Dual Durometer*** *synthetic track surfacing system components shall be processed and installed by specially designed machinery with automatic electronic portioning, which provides continuous mixing, feeding and finishing for accurate quality controlled installation.*

No hand mixing will be allowed.

5.4 – Materials

A. Force Reduction Layer

The fine mesh SBR granules and UV stabilized elastomeric polyurethane shall be metered and mixed together on site to regulate the ratio/quantity of SBR, not to exceed fourteen percent in the system and to insure an even distribution of the granules throughout the 5mm force reduction layer. No multi-layered system allowed.

B. *Resilient Wearing Layer*

The 1 to 3 millimeter EPDM granules shall be mechanically integrated with an UV stabilized elastomeric polyurethane to the full depth of the 5mm wearing layer. The resilient textured finish shall be a dense matrix of embedded EPDM granules.

5.5 – Site Conditions

A. *Installation shall not take place if adjacent or concurrent construction generates excessive dust, abrasives or any other byproduct that, in the opinion of the installer, would be harmful to the track material, until completion of such works.*

B. *If, in the opinion of the installer of the synthetic material, the weather and/or climatic conditions are detrimental to the proper installation of the surfacing materials, work shall be delayed until conditions are acceptable. Preferred installed temperature is 50 degrees Fahrenheit and rising. Installation shall be executed only in dry conditions.*

Part 6 – Line Striping and Event Markings

6.1 – Layout

Line striping and event markings shall be laid out in accordance with current IAAF and NCAA rules.

6.2 – Certification

Upon completion of the installation, the owner shall be supplied with all necessary computations and drawings as well as a letter of certification attesting to the accuracy of the markings.

Part 7 – Guarantee

Synthetic track surfacing system shall be fully guaranteed against faulty workmanship and material failure for a period of five (5) years from the date of acceptance.

Synthetic surfacing material found to be defective as a result of faulty workmanship and/or material failure shall be replaced or repaired at no charge, upon written notification within the guarantee period.

IAAF CERTIFICATION SYSTEM

REPORT OF SYNTHETIC SURFACE PRODUCT TEST

This form must be sent to:	INTERNATIONAL ASSOCIATION OF ATHLETICS FEDERATIONS Attention: Technical Manager 17, rue Princesse Florestine BP 359 - MC 98007 Monaco Cedex Tel: (+377) 93 10 88 88 - Fax: (+377) 93 15 95 15 - Direct Fax (+377) 93 50 32 63 E-mail: technicalofficer@iaaf.org

To obtain an IAAF Product Certificate for a synthetic surfacing material, the product must have been proven to conform to the specifications in the IAAF Track Facilities Testing Protocols. The testing must be undertaken by an IAAF Accredited Laboratory for Synthetic Surface Testing using equipment and testing procedures in accordance with the IAAF Track Facilities Testing Protocols and the results of the testing must be recorded on this proforma.

TESTING			
Testing Laboratory:	Sports Labs Ltd		
Date of Test:	3rd November 2015		
Tester(s)' Name(s):	Craig Melrose		
Test Report No.:	16638/1066		
TRACK SURFACE PRODUCT			
Product's Trade Name:	BSS-1000		
Manufacturer:	Beynon		
Address:	16 Alt Road, Hunt Valley		
	Maryland		
Telephone:	1.888.240.3670		
Fax:			
E-mail:			
Material Supplier(s):	Beynon Sports Surfaces		
	Lehigh Technologies, Gezolan		
Basic description	☒ Full polyurethane	☐ Spraycoat system	
	☐ Sandwich system	☐ Polyurethane on rubber	
	☐ Other:		

Description of Surface Composition		Appr. Thickness
Top Layer/Texture:	1-4mm EPDM	4-5mm
	Liquid applied two component Polyurethane (Beypur 250)	
Middle Layer(s):	n/a	
Bottom Layer:	Matrix of SBR (finely ground) with two component Polyurethane (Beypur 280)	8-9mm

Four sample pieces of the product, each at least 500mm x 500mm, should be supplied to the laboratory by the manufacturer. (One sample for testing and three samples for retention by the laboratory and the IAAF.)

CONTENTS

1. Difference between Overall Thickness and Absolute Thickness (in mm to 0.1mm)

Thickness	Test 1	Test 2	Test 3	Test 4*	Test 5	Test 6	Average
Overall	13.6	13.6	14.0	14.0			13.8
Absolute	12.4	12.4	12.9	12.7			12.6
Difference	1.2	1.2	1.1	1.3			1.2

**A minimum of four thickness measures shall be taken.*

2. Testing at Standard Laboratory Temperature ø

Recorded Test Drop No.*	Thickness (Absolute) mm	Sample Temperature °C	Force Reduction %	Vertical Deformation mm
1	12.8	**23**	39	1.5
2	12.8	**23**	37	1.5
3	12.8	**23**	-	1.5
Averages	12.8		38	1.5

**The average result is determined from two recorded results for FR and three recorded results for VD in accordance with the Test Protocols*

ø Additional testing at other locations on the sample may be undertaken and recorded.

Do any of the individual force reduction and/or vertical deformation results fall outside the allowable ranges of 35% to 50% and 0.6mm and 2.5mm for force reduction and vertical deformation respectively?

☐ **YES** ☒ **NO**

3. The Effect of Temperature on Force Reduction and Vertical Deformation

Thickness (Absolute) mm	Intended Sample Temperature °C	Actual Sample Temperature °C	Force Reduction %	Vertical Deformation mm
12.9	**0**	0.3	35	1.4
12.8	**10**	9.8	35	1.5
12.8	**20**	20.3	37	1.5
12.6	**23**	23.1	38	1.5
12.6	**30**	30.5	38	1.6
12.7	**40**	40.7	38	1.8
12.8	**50**	49.9	39	1.8

Do any of the individual force reduction and/or vertical deformation results in the temperature range 10°C to 40°C fall outside the allowable ranges of 35% to 50%, and 0.6mm and 2.5mm for force reduction and vertical deformation respectively?

☐ **YES** ☒ **NO**

If the answer is YES then the manufacturer should be advised so that they can make the necessary arrangements to ensure that their surfacing will not fail an in-situ test because of temperature effects on the properties.

4. Friction (Coefficient of Friction or TRRL Scale Reading)

Test No.	Friction Reading*
1	62
2	62
3	62
4	62
5	62
Average	62

**Average of five readings for the TRRL Pendulum or the average of three readings for the Sliding Resistance Tester.*

Are any of the individual friction readings less than TRRL Scale reading of 47 or Coefficient of Friction 0.5? (If so highlight the readings in BOLD.)

☐ YES ☒ NO

5. Tensile Tests

		Sample No*						
Property	Unit	1	2	3	4	5	6	Average
Tensile Strength	Mpa	0.80	0.71	0.69	0.74			0.74
Elongation	%	76	89	79	83			82

**A minimum of four specimens shall be tested.*

Are the average tensile strength or the average break elongation % less than 0.5Mpa for non-porous surfaces and 0.4MPA for porous surfaces, and 40% respectively?

☐ YES ☒ NO

Attachments

☒ **One reference sample of the material tested is to be supplied with the report to the IAAF.**

Conclusions

The synthetic surfacing material was tested in accordance with the IAAF Track Facilities Protocols as incorporated in the IAAF Track and Field Facilities Manual.

I hereby certify that all information provided in the report is accurate and is the result of well-conducted laboratory testing.

I consider that the synthetic surfacing material meets the requirements for an IAAF Product Certificate.

☒ **YES** ☐ **NO**

If the answer is NO please state below the reason(s) why the track surfacing material does not meet the specifications in the IAAF Track Facilities Testing Protocols fully.

Date:	**9th November 2015**
Authorised Director's Name:	**Sean Ramsay**
Signature:	S Ramsay

BSS 1000 ML

FULL POUR MULTILAYERED TRACK AND FIELD SYSTEM

Information

Beynon Sports Surfaces
16 Alt Road Hunt Valley, Maryland 21030
(410) 771-9473 | www.beynonsports.com

BEYNON®
A Tarkett Sports Company

THE ULTIMATE
SURFACE EXPERIENCE

BSS 1000ML
FULL POUR MULTILAYERED TRACK AND FIELD SYSTEM

Setting the bar for high-performance.

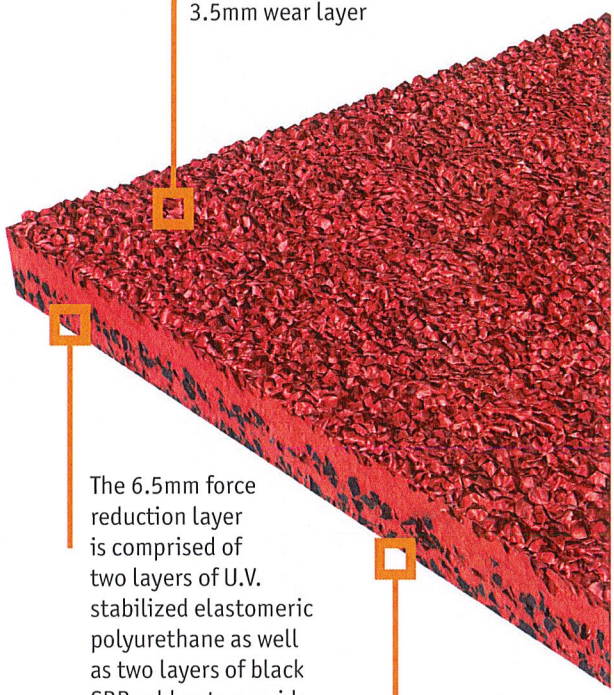
The BSS 1000ML is an IAAF Certified full pour multilayered track and field surface for schools and universities that desire a full pour track surface to meet competitive bidding requirements.

Comprised of UV stabilized two-component polyurethane, recycled SBR granules and EPDM, the BSS 1000ML is a three (3) layer system that exceeds the requirements of IAAF performance standards. The BSS 1000ML starts with the application of BEYPUR 250 two-component polyurethane, upon which SBR granules are broadcasted and reclaimed.

The next layer is comprised of BEYPUR 270, a specialty polyurethane elastomer with superior physical properties that give the final product outstanding resiliency. The wear layer of UV stabilized, BEYPUR 250 is then applied with your choice of embedded, encapsulated or Beynon's specialized Hobart texture.

The BSS 1000ML is IAAF Certified at 14.1mm and is backed by an industry leading 5-year warranty. The BSS 1000ML polyurethane materials are manufactured in our ISO 9001:2008 certified facility.

THE FULL POUR SPECIALISTS



IAAF CERTIFIED PRODUCT

Information

Beynon Sports Surfaces
16 Alt Road Hunt Valley, Maryland 21030
(410) 771-9473 | www.beynonsports.com

BEYNON®
A Tarkett Sports Company

THE ULTIMATE SURFACE EXPERIENCE

California Products
CORPORATION

150 Dascomb Road • Andover, MA 01810 • Telephone: 978.623.9980 • Facsimile: 978.623.9960

CERTIFICATION OF MANUFACTURER

This is to certify that Plexitrac® System products, Plexitrac Binder, Plexitrac Surfacer, and Plexitrac Coating are Polyresin products formulated and manufactured by California Products Corporation.

These products are specifically formulated for the construction of running track surfaces. When used in accordance with our specifications on properly prepared asphalt or concrete surfaces, the Plexitrac Surface will perform as a running track surface.

When installed by Authorized Applicator in accordance with our specification limited extended warranties are available.

Arthur F. Tucker
Vice President

Plexipave®
Sport Surfacing Systems

Mr. Kristoff Eldridge
Cape & Island Tennis & Track
28 Commerce Park Road
Pocasset, MA 02559-1100

Re: MATERIAL ACCEPTANCE CERTIFICATE

Dear Kristoff,

Please find the enclosed sample warranty for the Plexitrac Surfacing System for submittal, as well as, the Certificate of Compliance that the Binders and Coating being supplied. These Binders and Coatings have been manufactured solely for use in the construction of synthetic all-weather running track surfacing.

In addition, the sample of the Gezolan EPDM rubber has been inspected and tested for compatibility with the aforementioned binders and approved. Any future projects utilizing these rubber granules will comply with our manufacturer's recommendations for rubber sizing and cleanliness.

Thank you, as always, for your continued support and your consistent quality workmanship in using both the Plexitrac and Plexipave products. I hope this letter finds you well. Should you have any questions or need additional information, please do not hesitate to call me.

Kindest Regards,

Paul Spongberg
Area Manager
Plexipave Sports Surfaces

California Products Corp.
150 Dascomb Road
P.O. Box 100
Andover, MA
01810 USA

Phone 978-623-9980
Fax 978-623-9960
Toll Free 800-225-1141
E-Mail info@plexipave.com
web www.plexipave.com

PRODUCT DATA
& SPECIFICATIONS

02 SITE IMPROVEMENTS
ATHLETIC FACILITIES

EXTERIOR/INTERIOR

RESILIENT TRACK SYSTEM

PLEXITRAC ACCELERATOR

POLYRESIN TRACK SYSTEM
RESURFACE APPLICATION

1.0 DESCRIPTION

This track system utilizes specially compounded, pigmented, water-based binders and select rubber granules to provide strength, flexibility and to prevent ultra violet degradation. A Top coat is applied to further protect against harmful UV rays and to reduce wear. The system provides a durable, resilient, spike resistant surface for recreational and competitive use.

NOTE: The success of the running track surface is dependent on a sound base (with good drainage) and the asphalt concrete meeting the requirements of The National Asphalt Paving Association and the U.S. Tennis Court and Track Builders Association. Variations of the existing subsurface should not exceed 1/8" in 10' when measured in any direction with a straightedge.

2.0 MATERIALS - All liquid products shall be supplied by one manufacturer.

2.1 CP-4125 - Latex emulsion tack coat.

2.2 Plexitrac Binder - Shall comply with Specification 10.73 of California Products Corporation

2.3 Rubber Granules - Select granules for job mixing with Plexitrac Binder.

2.4 Plexitrac Coating - Shall comply with Specification 10.72 of California Products Corporation

2.5 Plexicolor Line Paint - Shall comply with Specification 10.4 of California Products Corporation.

2.6 Plexicolor Pigment- Water-borne pigment for enhanced color depth

2.7 Water - The water used in all mixtures shall be fresh and potable.

3.0 CONSTRUCTION

Primer Coat - A tack coat of CP-4125 must be applied over the entire surface at a rate of .03 gal./s.y. Allow to dry thoroughly.

Track Surface – Materials shall be applied to achieve a dense uniform surface of not less than the specified thickness in not less than two layers. The Plexitrac Binder must be evenly distributed amongst the rubber granules upon the application of materials. Coverage rates (Measured in accordance with I.A.A.F. standards):

Rubber Granules:	Plexitrac Binder:
3.5 lbs./s.y.	.21 gal./s.y.

Coverage rate based on undiluted product. Binder to rubber ratio shall be 1 gallon of Plexitrac Binder to 24 lbs. of E.P.D.M.

To further enhance color depth, it is recommended to add 5 gallons of Plexicolor Pigment to each 55 gallon drum of Pleixtrac Binder on the final spraycoat. Plexicolor Pigment is a water-borne colorant available from California Products.

The coverage rates for the rubber granules is dependent on the specific gravity (density) of the rubber and the installation method of the surfacing system. Different densities will effect the dry bulking value of the rubber which determines the weight per square yard for a specified thickness. The specific gravity for rubber particles can vary between colors, size, and manufacturers. It is recommended to consult the manufacturer for more information. Also, different application methods can effect the overall system density requiring lower or higher volumes of product. System weights and volumes shall be verified by on-site sample methods.

California Products Corporation 169 WAVERLY STREET • CAMBRIDGE, MA 02139-0007

TEL. 617-547-5300 • FAX 617-547-6934

CALIFORNIA®
SPORTS SURFACES

PLEXITRAC® BINDER
#84xx

DESCRIPTION

Plexitrac® Binder is a formulated water-based resin that is designed for job mixing with SBR or EPDM rubber granules to produce a high strength, resilient running track surfacing system. The surfacing system is an environmentally friendly, resilient, spike resistant surface that can be applied over properly prepared asphalt or concrete surfaces.

SURFACE USES

Over properly prepared surfaces for:

- Running Tracks
- Field Events
- Jogging Surfaces

APPLICATION

Product will be applied using a portable spray unit with the following properties: 1 ¼" air-operated double diaphragm pump (70gpm) powered by a 8 hp air compressor with a surge dampener to control pulsation. System utilizes a seal coating spray wand and spray tips (tip sizes 80/40 or 80/50).

DRYING TIME

Shade and lower temperature will slow drying considerably. This application is safe from rain damage 5 hours after installation under ideal drying conditions (70F and rising and 50% relative humidity).

COLOR

Black, Red, Blue, Green. Special colors available upon request. Surface must be top coated with Plexitrac Coating.

COVERAGE

When spraying Plexitrac Binder, mix ratio is 2-parts material to 1-part water.

For SBR rubber granules, the ratio shall be 18 lbs. rubber granules to 1 gallon of Plexitrac Binder.

For EPDM rubber granules, the ratio shall be 21 lbs. of rubber granules to 1 gallon of Plexitrac Binder.

LIMITATIONS

- Apply only when ambient and surface temperature is 55°F/13°C and below 130°F/55°C
- Do not apply when rain or high humidity is imminent
- Keep from freezing and do not store in hot sun.
- Allow new asphalt to cure at least 14 days
- Allow new concrete to cure no less than 28 days

United States: 150 Dascomb Rd., Andover, MA 01810 • Phone 978.623.9980
Australia: 30 – 32 Assembly Drive, Tullamarine, Victoria, Australia, 3043 • Phone 1800 786 617 (Toll Free) • In Australia: +61 3 9338 9851
californiasportssurfaces.com • www.icpgroup.com

ICP TACK - 8425

ICP Construction

Version No: **2.2**
Safety Data Sheet according to OSHA HazCom Standard (2012) requirements

Issue Date: **04/24/2019**
Print Date: **04/24/2019**
S.GHS.USA.EN

SECTION 1 IDENTIFICATION

Product Identifier

Product name	ICP TACK - 8425
Synonyms	Not Available
Other means of identification	Not Available

Recommended use of the chemical and restrictions on use

Relevant identified uses	Use according to manufacturer's directions.

Name, address, and telephone number of the chemical manufacturer, importer, or other responsible party

Registered company name	**ICP Construction**
Address	150 Dascomb Road Andover MA United States
Telephone	978-623-9980
Fax	Not Available
Website	http://www.icp-construction.com/
Email	Not Available

Emergency phone number

Association / Organisation	**Chemtel**
Emergency telephone numbers	1-800-255-3924
Other emergency telephone numbers	1-813-248-0585

SECTION 2 HAZARD(S) IDENTIFICATION

Classification of the substance or mixture

Note: The hazard category numbers found in GHS classification in section 2 of this SDSs are NOT to be used to fill in the NFPA 704 diamond. Blue = Health Red = Fire Yellow = Reactivity White = Special (Oxidizer or water reactive substances)

Classification	Not Applicable

Label elements

Hazard pictogram(s)	Not Applicable
SIGNAL WORD	**NOT APPLICABLE**

Hazard statement(s)

Not Applicable

Hazard(s) not otherwise classified

Not Applicable

Precautionary statement(s) Prevention

Not Applicable

Precautionary statement(s) Response

Not Applicable

Continued...

Precautionary statement(s) Storage

Not Applicable

Precautionary statement(s) Disposal

Not Applicable

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

Substances

See section below for composition of Mixtures

Mixtures

CAS No	%[weight]	Name
Not Available	100	Non-hazardous ingredient

SECTION 4 FIRST-AID MEASURES

Description of first aid measures

Eye Contact	If this product comes in contact with eyes: • Wash out immediately with water. • If irritation continues, seek medical attention. • Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.
Skin Contact	If skin or hair contact occurs: • Flush skin and hair with running water (and soap if available). • Seek medical attention in event of irritation.
Inhalation	• If fumes, aerosols or combustion products are inhaled remove from contaminated area. • Other measures are usually unnecessary.
Ingestion	• Immediately give a glass of water. • First aid is not generally required. If in doubt, contact a Poisons Information Centre or a doctor.

Most important symptoms and effects, both acute and delayed

See Section 11

Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5 FIRE-FIGHTING MEASURES

Extinguishing media

- There is no restriction on the type of extinguisher which may be used.
- Use extinguishing media suitable for surrounding area.

Special hazards arising from the substrate or mixture

Fire Incompatibility	None known.

Special protective equipment and precautions for fire-fighters

Fire Fighting	• Use water delivered as a fine spray to control fire and cool adjacent area. • **Do not** approach containers suspected to be hot. • Cool fire exposed containers with water spray from a protected location.
Fire/Explosion Hazard	• Non combustible. • Not considered a significant fire risk, however containers may burn.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

See section 8

Environmental precautions

See section 12

Methods and material for containment and cleaning up

Minor Spills	• Clean up all spills immediately. • Avoid breathing vapours and contact with skin and eyes. • Control personal contact with the substance, by using protective equipment.
Major Spills	• Clear area of personnel and move upwind. • Alert Fire Brigade and tell them location and nature of hazard. • Control personal contact with the substance, by using protective equipment.

Personal Protective Equipment advice is contained in Section 8 of the SDS.

Continued...

SECTION 7 HANDLING AND STORAGE

Precautions for safe handling

Safe handling	▸ Limit all unnecessary personal contact. ▸ Wear protective clothing when risk of exposure occurs. ▸ Use in a well-ventilated area.
Other information	

Conditions for safe storage, including any incompatibilities

Suitable container	▸ Polyethylene or polypropylene container. ▸ Packing as recommended by manufacturer. ▸ Check all containers are clearly labelled and free from leaks.
Storage incompatibility	Avoid contamination of water, foodstuffs, feed or seed. None known

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters

OCCUPATIONAL EXPOSURE LIMITS (OEL)

INGREDIENT DATA

Not Available

EMERGENCY LIMITS

Ingredient	Material name	TEEL-1	TEEL-2	TEEL-3
ICP TACK - 8425	Not Available	Not Available	Not Available	Not Available

Ingredient	Original IDLH	Revised IDLH
Non-hazardous ingredient	Not Available	Not Available

Exposure controls

Appropriate engineering controls	Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard. Well-designed engineering controls can be highly effective in protecting workers and will typically be independent of worker interactions to provide this high level of protection. The basic types of engineering controls are: Process controls which involve changing the way a job activity or process is done to reduce the risk.
Personal protection	
Eye and face protection	▸ Safety glasses with side shields ▸ Chemical goggles. ▸ Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.
Skin protection	See Hand protection below
Hands/feet protection	Wear general protective gloves, eg. light weight rubber gloves. The selection of suitable gloves does not only depend on the material, but also on further marks of quality which vary from manufacturer to manufacturer. Where the chemical is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application. The exact break through time for substances has to be obtained from the manufacturer of the protective gloves and.has to be observed when making a final choice.
Body protection	See Other protection below
Other protection	No special equipment needed when handling small quantities. **OTHERWISE:** ▸ Overalls. ▸ Barrier cream.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance	Not Available

Physical state	Liquid	**Relative density (Water = 1)**	Not Available
Odour	Not Available	**Partition coefficient n-octanol / water**	Not Available
Odour threshold	Not Available	**Auto-ignition temperature (°C)**	Not Available
pH (as supplied)	Not Available	**Decomposition temperature**	Not Available
Melting point / freezing point (°C)	Not Available	**Viscosity (cSt)**	Not Available

Continued...

Initial boiling point and boiling range (°C)	Not Available	**Molecular weight (g/mol)**	Not Available
Flash point (°C)	Not Available	**Taste**	Not Available
Evaporation rate	Not Available	**Explosive properties**	Not Available
Flammability	Not Available	**Oxidising properties**	Not Available
Upper Explosive Limit (%)	Not Available	**Surface Tension (dyn/cm or mN/m)**	Not Available
Lower Explosive Limit (%)	Not Available	**Volatile Component (%vol)**	Not Available
Vapour pressure (kPa)	Not Available	**Gas group**	Not Available
Solubility in water	Immiscible	**pH as a solution (1%)**	Not Available
Vapour density (Air = 1)	Not Available	**VOC g/L**	Not Available

SECTION 10 STABILITY AND REACTIVITY

Reactivity	See section 7
Chemical stability	Product is considered stable and hazardous polymerisation will not occur.
Possibility of hazardous reactions	See section 7
Conditions to avoid	See section 7
Incompatible materials	See section 7
Hazardous decomposition products	See section 5

SECTION 11 TOXICOLOGICAL INFORMATION

Information on toxicological effects

Inhaled	The material is not thought to produce adverse health effects or irritation of the respiratory tract (as classified by EC Directives using animal models). Nevertheless, good hygiene practice requires that exposure be kept to a minimum and that suitable control measures be used in an occupational setting.
Ingestion	The material has **NOT** been classified by EC Directives or other classification systems as "harmful by ingestion". This is because of the lack of corroborating animal or human evidence.
Skin Contact	The liquid may be able to be mixed with fats or oils and may degrease the skin, producing a skin reaction described as non-allergic contact dermatitis. The material is unlikely to produce an irritant dermatitis as described in EC Directives.
Eye	Although the liquid is not thought to be an irritant (as classified by EC Directives), direct contact with the eye may produce transient discomfort characterised by tearing or conjunctival redness (as with windburn).
Chronic	Long-term exposure to the product is not thought to produce chronic effects adverse to the health (as classified by EC Directives using animal models); nevertheless exposure by all routes should be minimised as a matter of course.

ICP TACK - 8425

TOXICITY	IRRITATION
Not Available	Not Available

Non-hazardous ingredient

TOXICITY	IRRITATION
Not Available	Not Available

Legend: *1. Value obtained from Europe ECHA Registered Substances - Acute toxicity 2.* Value obtained from manufacturer's SDS. Unless otherwise specified data extracted from RTECS - Register of Toxic Effect of chemical Substances*

Acute Toxicity	✗	**Carcinogenicity**	✗
Skin Irritation/Corrosion	✗	**Reproductivity**	✗
Serious Eye Damage/Irritation	✗	**STOT - Single Exposure**	✗
Respiratory or Skin sensitisation	✗	**STOT - Repeated Exposure**	✗
Mutagenicity	✗	**Aspiration Hazard**	✗

Legend: ✗ *– Data either not available or does not fill the criteria for classification*
✓ *– Data available to make classification*

SECTION 12 ECOLOGICAL INFORMATION

Toxicity

ICP TACK - 8425

ENDPOINT	TEST DURATION (HR)	SPECIES	VALUE	SOURCE
Not Available	Not Available	Not Available	Not Available	Not Available

Non-hazardous ingredient

ENDPOINT	TEST DURATION (HR)	SPECIES	VALUE	SOURCE
Not Available	Not Available	Not Available	Not Available	Not Available

Continued...

Legend:	*Extracted from 1. IUCLID Toxicity Data 2. Europe ECHA Registered Substances - Ecotoxicological Information - Aquatic Toxicity 3. EPIWIN Suite V3.12 (QSAR) - Aquatic Toxicity Data (Estimated) 4. US EPA, Ecotox database - Aquatic Toxicity Data 5. ECETOC Aquatic Hazard Assessment Data 6. NITE (Japan) - Bioconcentration Data 7. METI (Japan) - Bioconcentration Data 8. Vendor Data*

Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
	No Data available for all ingredients	No Data available for all ingredients

Bioaccumulative potential

Ingredient	Bioaccumulation
	No Data available for all ingredients

Mobility in soil

Ingredient	Mobility
	No Data available for all ingredients

SECTION 13 DISPOSAL CONSIDERATIONS

Waste treatment methods

Product / Packaging disposal	Legislation addressing waste disposal requirements may differ by country, state and/ or territory. Each user must refer to laws operating in their area. In some areas, certain wastes must be tracked. ▸ **DO NOT** allow wash water from cleaning or process equipment to enter drains. ▸ It may be necessary to collect all wash water for treatment before disposal. ▸ In all cases disposal to sewer may be subject to local laws and regulations and these should be considered first. ▸ Recycle wherever possible. ▸ Consult manufacturer for recycling options or consult local or regional waste management authority for disposal if no suitable treatment or disposal facility can be identified. ▸ Dispose of by: burial in a land-fill specifically licensed to accept chemical and / or pharmaceutical wastes or incineration in a licensed apparatus (after admixture with suitable combustible material).

SECTION 14 TRANSPORT INFORMATION

Labels Required

Marine Pollutant	NO Not Applicable

Land transport (DOT): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Air transport (ICAO-IATA / DGR): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Sea transport (IMDG-Code / GGVSee): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Transport in bulk according to Annex II of MARPOL and the IBC code

Not Applicable

SECTION 15 REGULATORY INFORMATION

Safety, health and environmental regulations / legislation specific for the substance or mixture

NON-HAZARDOUS INGREDIENT(NOT APPLICABLE) IS FOUND ON THE FOLLOWING REGULATORY LISTS

Not Applicable

Federal Regulations

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SECTION 311/312 HAZARD CATEGORIES

Flammable (Gases, Aerosols, Liquids, or Solids)	No
Gas under pressure	No
Explosive	No
Self-heating	No
Pyrophoric (Liquid or Solid)	No
Pyrophoric Gas	No
Corrosive to metal	No
Oxidizer (Liquid, Solid or Gas)	No
Organic Peroxide	No
Self-reactive	No
In contact with water emits flammable gas	No

Continued...

Combustible Dust	No
Carcinogenicity	No
Acute toxicity (any route of exposure)	No
Reproductive toxicity	No
Skin Corrosion or Irritation	No
Respiratory or Skin Sensitization	No
Serious eye damage or eye irritation	No
Specific target organ toxicity (single or repeated exposure)	No
Aspiration Hazard	No
Germ cell mutagenicity	No
Simple Asphyxiant	No
Hazards Not Otherwise Classified	No

US. EPA CERCLA HAZARDOUS SUBSTANCES AND REPORTABLE QUANTITIES (40 CFR 302.4)

None Reported

State Regulations

US. CALIFORNIA PROPOSITION 65

None Reported

National Inventory Status

National Inventory	Status
Australia - AICS	Yes
Canada - DSL	Yes
Canada - NDSL	Yes
China - IECSC	Yes
Europe - EINEC / ELINCS / NLP	Yes
Japan - ENCS	Yes
Korea - KECI	Yes
New Zealand - NZIoC	Yes
Philippines - PICCS	Yes
USA - TSCA	Yes
Taiwan - TCSI	Yes
Mexico - INSQ	Yes
Vietnam - NCI	Yes
Russia - ARIPS	Yes
Thailand - TECI	Yes
Legend:	*Yes = All declared ingredients are on the inventory* *No = Not determined or one or more ingredients are not on the inventory and are not exempt from listing(see specific ingredients in brackets)*

SECTION 16 OTHER INFORMATION

Revision Date	04/24/2019
Initial Date	06/01/2018

CONTACT POINT

PLEASE NOTE THAT TITANIUM DIOXIDE IS NOT PRESENT IN CLEAR OR NEUTRAL BASES

SDS Version Summary

Version	Issue Date	Sections Updated
1.2.1.1.1	04/24/2019	Classification, Ingredients, Supplier Information

Other information

Classification of the preparation and its individual components has drawn on official and authoritative sources as well as independent review by the Chemwatch Classification committee using available literature references.
The SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment. Many factors determine whether the reported Hazards are Risks in the workplace or other settings. Risks may be determined by reference to Exposures Scenarios.

Definitions and abbreviations

PC—TWA: Permissible Concentration-Time Weighted Average
PC—STEL: Permissible Concentration-Short Term Exposure Limit
IARC: International Agency for Research on Cancer
ACGIH: American Conference of Governmental Industrial Hygienists
STEL: Short Term Exposure Limit
TEEL: Temporary Emergency Exposure Limit。
IDLH: Immediately Dangerous to Life or Health Concentrations

Continued...

OSF: Odour Safety Factor
NOAEL :No Observed Adverse Effect Level
LOAEL: Lowest Observed Adverse Effect Level
TLV: Threshold Limit Value
LOD: Limit Of Detection
OTV: Odour Threshold Value
BCF: BioConcentration Factors
BEI: Biological Exposure Index

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CALIFORNIA®
SPORTS SURFACES

COURT PATCH BINDER

DESCRIPTION

California Court Patch Binder is a high strength acrylic latex bonding liquid specifically designed for field mixing with Portland cement and silica sand to patch new or existing asphalt and Portland cement concrete recreational surfaces. The resulting patch is hard, tough and durable.

SURFACE USE

Court Patch Binder Mix is intended for patching voids and depressions from 1/8" to 1-1/2" (0.32cm-3.81cm) deep over asphalt or concrete substrates. Do not install Court Patch Binder mix in lifts greater than 3/4"(1.91cm). CPB is not a topcoat; it is intended to be used with other California Sports Surfaces systems.

SURFACE PREPARATION

Surface must meet or exceed the American Sports Builders Association (ASBA) applicable Guidelines. Upgrading and recoating previously colored surfaces requires the surface and base construction to be in sound condition and in compliance with the applicable ASBA Guidelines.

New hot-mix asphalt surfaces must be allowed 14 days minimum cure time prior to application of Court Patch Binder. For new Portland cement concrete surfaces, a minimum of 28 days cure time is required. The surface on which Court Patch Binder is to be applied must be smooth, free of dirt, loose or flaking paint, oily materials or chemical residues, vegetation of any sort and any other debris or foreign matter that may prevent the proper product adhesion.

MIXING INSTRUCTIONS

Only the primer coat is diluted, not the Court Patch Binder. Each lift must be allowed to dry between applications.

Court Patch Binder	Dry Silica Sand 60-80 mesh	Portland Cement (Type1)	Mix
3 gallons (11.4L)	100 lbs. (45kg)	1-2 gallons (3.8-7.6L)	Premix sand and Portland cement before adding Court Patch Binder
Mix should not sit more than 15 minutes prior to application.			
Mechanical drill mixer is recommended.			
Periodic mixing should take place as job progresses to ensure consistent application.			

APPLICATION

Prior to the application of surfacing materials, the entire surface shall be flooded with water and allowed to drain. Any depressions that holds at least 1/8" (3mm) puddle after one hour should be marked with chalk, not crayon or a grease pencil. These areas must then be allowed to dry thoroughly. Once dried, a patch must be applied to the marked areas.

Court Patch Binder is best installed with a trowel or straight edge. The area to be patched should first be primed with a diluted coat of Court Patch Binder. (Do not dilute more than 2 parts water to 1 part CPB.) The area should be brushed, broomed or rolled over the entire area, and allowed to dry at least 1 hour. Pour the Court Patch Binder mix over the area to be patched and trowel into place. Edges of the patch should be "feathered" so as not to leave a ridge of material around the patch. Ridges should be removed with a scraper prior to a thorough cure. Once cured, an additional coat of diluted Court Patch Binder may be applied, as necessary, and allowed to dry. Allow to dry thoroughly before coating with the acrylic surface systems.

United States: 150 Dascomb Rd., Andover, MA 01810 • 978.623.9980
Australia: 30-32 Assembly Drive, Tullamarine, Victoria 3043 • 1.800 786 617
Californiasportssurfaces.com • www.icpgroup.com

Estimated cure time: 24 hours Minimum ambient, surface & product installation temperature: 60° and rising Note: Low temperatures or high humidity will increase drying time drastically.

COVERAGE
Based on size, depth and texture of area to be patched.

CAUTION
Contains Phosphoric Acid and Zinc Chloride. Avoid contact with eyes and prolonged contact with skin. In case of contact, immediately flush skin or eyes with plenty of clean water for at least 15 minutes. Get medical attention for eyes.

LIMITATIONS
Apply only when ambient surface and air temperature are a minimum 50°F (10°C) and rising.
Do not apply when rain or high humidity is imminent.
The surface should be sound, free of cracks and deterioration.
The surface should be clean of all contaminants.
Court Patch Binder will not prevent cracks from occurring or reoccurring.
Keep from freezing.
Do not store in the direct sunlight.
Once opened, entire contents should be used.
Shaded and Indoor areas will dry more slowly.
Court Patch Binder is considered semi-permeable and is NOT a waterproofing material.
Will not prevent metal or organic staining if there are contaminants in the subsurface.

United States: 150 Dascomb Rd., Andover, MA 01810 • 978.623.9980
Australia: 30-32 Assembly Drive, Tullamarine, Victoria 3043 • 1.800 786 617
Californiasportssurfaces.com • www.icpgroup.com

Plexitrac Binder Red 8400

ICP Construction

Version No: **1.2**
Safety Data Sheet according to OSHA HazCom Standard (2012) requirements

Issue Date: **03/14/2017**
Print Date: **03/14/2017**
S.GHS.USA.EN

SECTION 1 IDENTIFICATION

Product Identifier

Product name	Plexitrac Binder Red 8400
Synonyms	Not Available
Other means of identification	Not Available

Recommended use of the chemical and restrictions on use

Relevant identified uses	Binder for building running tracks and other athletic surfaces

Name, address, and telephone number of the chemical manufacturer, importer, or other responsible party

Registered company name	ICP Construction
Address	150 Dascomb Road Massachusetts Andover United States
Telephone	978-623-9980
Fax	Not Available
Website	Not Available
Email	Not Available

Emergency phone number

Association / Organisation	Chemtel
Emergency telephone numbers	1-800-255-3924
Other emergency telephone numbers	1-813-248-0585

SECTION 2 HAZARD(S) IDENTIFICATION

Classification of the substance or mixture

Classification	Acute Toxicity (Oral) Category 4

Label elements

GHS label elements	
SIGNAL WORD	**WARNING**

Hazard statement(s)

H302	Harmful if swallowed.

Hazard(s) not otherwise specified

Not Applicable

Precautionary statement(s) Prevention

P264	Wash all exposed external body areas thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.

Precautionary statement(s) Response

Continued...

P301+P312	IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
P330	Rinse mouth.

Precautionary statement(s) Storage

Not Applicable

Precautionary statement(s) Disposal

P501	Dispose of contents/container in accordance with local regulations.

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

Substances

See section below for composition of Mixtures

Mixtures

CAS No	%[weight]	Name
107-21-1	1-5	ethylene glycol
1308-38-9	1-10	C.I. Pigment Green 17
1309-37-1	1-10	red iron oxide

SECTION 4 FIRST-AID MEASURES

Description of first aid measures

Eye Contact	If this product comes in contact with the eyes: ▸ Wash out immediately with fresh running water. ▸ Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids. ▸ Seek medical attention without delay; if pain persists or recurs seek medical attention. ▸ Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.
Skin Contact	If skin or hair contact occurs: ▸ Flush skin and hair with running water (and soap if available). ▸ Seek medical attention in event of irritation.
Inhalation	▸ If fumes, aerosols or combustion products are inhaled remove from contaminated area. ▸ Other measures are usually unnecessary.
Ingestion	▸ **IF SWALLOWED, REFER FOR MEDICAL ATTENTION, WHERE POSSIBLE, WITHOUT DELAY.** ▸ For advice, contact a Poisons Information Centre or a doctor. ▸ Urgent hospital treatment is likely to be needed. ▸ In the mean time, qualified first-aid personnel should treat the patient following observation and employing supportive measures as indicated by the patient's condition. ▸ If the services of a medical officer or medical doctor are readily available, the patient should be placed in his/her care and a copy of the SDS should be provided. Further action will be the responsibility of the medical specialist. ▸ If medical attention is not available on the worksite or surroundings send the patient to a hospital together with a copy of the SDS. **Where medical attention is not immediately available or where the patient is more than 15 minutes from a hospital or unless instructed otherwise:** ▸ **INDUCE** vomiting with fingers down the back of the throat, **ONLY IF CONSCIOUS**. Lean patient forward or place on left side (head-down position, if possible) to maintain open airway and prevent aspiration. **NOTE:** Wear a protective glove when inducing vomiting by mechanical means.

Most important symptoms and effects, both acute and delayed

See Section 11

Indication of any immediate medical attention and special treatment needed

For acute or short term repeated exposures to ethylene glycol:

- Early treatment of ingestion is important. Ensure emesis is satisfactory.
- Test and correct for metabolic acidosis and hypocalcaemia.
- Apply sustained diuresis when possible with hypertonic mannitol.
- Evaluate renal status and begin haemodialysis if indicated. [I.L.O]
- Rapid absorption is an indication that emesis or lavage is effective only in the first few hours. Cathartics and charcoal are generally not effective.
- Correct acidosis, fluid/electrolyte balance and respiratory depression in the usual manner. Systemic acidosis (below 7.2) can be treated with intravenous sodium bicarbonate solution.
- Ethanol therapy prolongs the half-life of ethylene glycol and reduces the formation of toxic metabolites.
- Pyridoxine and thiamine are cofactors for ethylene glycol metabolism and should be given (50 to 100 mg respectively) intramuscularly, four times per day for 2 days.
- Magnesium is also a cofactor and should be replenished. The status of 4-methylpyrazole, in the treatment regime, is still uncertain. For clearance of the material and its metabolites, haemodialysis is much superior to peritoneal dialysis.

[Ellenhorn and Barceloux: Medical Toxicology]

It has been suggested that there is a need for establishing a new biological exposure limit before a workshift that is clearly below 100 mmol ethoxy-acetic acids per mole creatinine in morning urine of people occupationally exposed to ethylene glycol ethers. This arises from the finding that an increase in urinary stones may be associated with such exposures.
Laitinen J., et al: Occupational & Environmental Medicine 1996; 53, 595-600

SECTION 5 FIRE-FIGHTING MEASURES

Extinguishing media

Continued...

- There is no restriction on the type of extinguisher which may be used.
- Use extinguishing media suitable for surrounding area.

Special hazards arising from the substrate or mixture

Fire Incompatibility	None known.

Special protective equipment and precautions for fire-fighters

Fire Fighting	- Alert Fire Brigade and tell them location and nature of hazard. - Wear breathing apparatus plus protective gloves in the event of a fire. - Prevent, by any means available, spillage from entering drains or water courses. - Use fire fighting procedures suitable for surrounding area. - **DO NOT** approach containers suspected to be hot. - Cool fire exposed containers with water spray from a protected location. - If safe to do so, remove containers from path of fire. - Equipment should be thoroughly decontaminated after use.
Fire/Explosion Hazard	- Non combustible. - Not considered a significant fire risk, however containers may burn. May emit poisonous fumes.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

See section 8

Environmental precautions

See section 12

Methods and material for containment and cleaning up

Minor Spills	- Clean up all spills immediately. - Avoid breathing vapours and contact with skin and eyes. - Control personal contact with the substance, by using protective equipment. - Contain and absorb spill with sand, earth, inert material or vermiculite. - Wipe up. - Place in a suitable, labelled container for waste disposal.
Major Spills	Moderate hazard. - Clear area of personnel and move upwind. - Alert Fire Brigade and tell them location and nature of hazard. - Wear breathing apparatus plus protective gloves. - Prevent, by any means available, spillage from entering drains or water course. - Stop leak if safe to do so. - Contain spill with sand, earth or vermiculite. - Collect recoverable product into labelled containers for recycling. - Neutralise/decontaminate residue (see Section 13 for specific agent). - Collect solid residues and seal in labelled drums for disposal. - Wash area and prevent runoff into drains. - After clean up operations, decontaminate and launder all protective clothing and equipment before storing and re-using. - If contamination of drains or waterways occurs, advise emergency services.

Personal Protective Equipment advice is contained in Section 8 of the SDS.

SECTION 7 HANDLING AND STORAGE

Precautions for safe handling

Safe handling	- Avoid all personal contact, including inhalation. - Wear protective clothing when risk of exposure occurs. - Use in a well-ventilated area. - Prevent concentration in hollows and sumps. - **DO NOT** enter confined spaces until atmosphere has been checked. - **DO NOT** allow material to contact humans, exposed food or food utensils. - Avoid contact with incompatible materials. - When handling, **DO NOT** eat, drink or smoke. - Keep containers securely sealed when not in use. - Avoid physical damage to containers. - Always wash hands with soap and water after handling. - Work clothes should be laundered separately. Launder contaminated clothing before re-use. - Use good occupational work practice. - Observe manufacturer's storage and handling recommendations contained within this SDS. - Atmosphere should be regularly checked against established exposure standards to ensure safe working conditions are maintained.
Other information	

Conditions for safe storage, including any incompatibilities

Suitable container	- Polyethylene or polypropylene container. - Packing as recommended by manufacturer. - Check all containers are clearly labelled and free from leaks.

Continued...

Storage incompatibility	For iron oxide (ferric oxide): ▸ Avoid storage with aluminium, calcium hypochlorite and ethylene oxide. ▸ Risk of explosion occurs following reaction with powdered aluminium, calcium silicide, ethylene oxide (polymerises), carbon monoxide, magnesium and perchlorates. ▸ Risk of ignition or formation of flammable gases or vapours occurs following reaction with carbides, for example caesium carbide, (produces heat), hydrogen sulfide, hydrogen peroxide (decomposes). ▸ An intimately powered mixture with aluminium, usually ignited by magnesium ribbon, reacts with an intense exotherm to produce molten iron in the commercial "thermit" welding process ▸ WARNING: Avoid or control reaction with peroxides. All *transition metal* peroxides should be considered as potentially explosive. For example transition metal complexes of alkyl hydroperoxides may decompose explosively. ▸ The pi-complexes formed between chromium(0), vanadium(0) and other transition metals (haloarene-metal complexes) and mono-or poly-fluorobenzene show extreme sensitivity to heat and are explosive. ▸ Avoid reaction with borohydrides or cyanoborohydrides

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters

OCCUPATIONAL EXPOSURE LIMITS (OEL)

INGREDIENT DATA

Source	Ingredient	Material name	TWA	STEL	Peak	Notes
US ACGIH Threshold Limit Values (TLV)	ethylene glycol	‡ Ethylene glycol	Not Available	Not Available	100 mg/m3	TLV® Basis: URT & eye irr
US NIOSH Recommended Exposure Limits (RELs)	ethylene glycol	1,2-Dihydroxyethane; 1,2-Ethanediol; Glycol; Glycol alcohol; Monoethylene glycol	Not Available	Not Available	Not Available	See Appendix D
US OSHA Permissible Exposure Levels (PELs) - Table Z1	C.I. Pigment Green 17	Chromium (III) compounds	0.5 mg/m3	Not Available	Not Available	(as Cr)
US OSHA Permissible Exposure Levels (PELs) - Table Z1	C.I. Pigment Green 17	Chromium metal and insol. salts	1 mg/m3	Not Available	Not Available	(as Cr)
US NIOSH Recommended Exposure Limits (RELs)	C.I. Pigment Green 17	Synonyms vary depending upon the specific Chromium(III) compound. [Note: Chromium(III) compounds include soluble chromic salts.]	0.5 mg/m3	Not Available	Not Available	See Appendix C
US OSHA Permissible Exposure Levels (PELs) - Table Z1	red iron oxide	Iron oxide fume	10 mg/m3	Not Available	Not Available	Not Available
US ACGIH Threshold Limit Values (TLV)	red iron oxide	Iron oxide (Fe203)	5 mg/m3	Not Available	Not Available	TLV® Basis: Pneumoconiosis
US NIOSH Recommended Exposure Limits (RELs)	red iron oxide	Iron(III)oxide, Iron oxide red, Red iron oxide, Red oxide / Ferric oxide, Iron(III) oxide	5 mg/m3	Not Available	Not Available	See Appendix D

EMERGENCY LIMITS

Ingredient	Material name	TEEL-1	TEEL-2	TEEL-3
ethylene glycol	Ethylene glycol	30 ppm	40 ppm	60 ppm
C.I. Pigment Green 17	Chromic oxide; (Chromium(III) oxide; Chromium sesquioxide)	2.2 mg/m3	24 mg/m3	140 mg/m3
red iron oxide	Iron oxide; (Ferric oxide)	15 mg/m3	360 mg/m3	2,200 mg/m3

Ingredient	Original IDLH	Revised IDLH
ethylene glycol	Not Available	Not Available
C.I. Pigment Green 17	N.E. mg/m3 / N.E. ppm	25 mg/m3
red iron oxide	N.E. mg/m3 / N.E. ppm	2,500 mg/m3

Exposure controls

Appropriate engineering controls

Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard. Well-designed engineering controls can be highly effective in protecting workers and will typically be independent of worker interactions to provide this high level of protection.
The basic types of engineering controls are:
Process controls which involve changing the way a job activity or process is done to reduce the risk.
Enclosure and/or isolation of emission source which keeps a selected hazard "physically" away from the worker and ventilation that strategically "adds" and "removes" air in the work environment. Ventilation can remove or dilute an air contaminant if designed properly. The design of a ventilation system must match the particular process and chemical or contaminant in use.
Employers may need to use multiple types of controls to prevent employee overexposure.

General exhaust is adequate under normal operating conditions. If risk of overexposure exists, wear SAA approved respirator. Correct fit is essential to obtain adequate protection. Provide adequate ventilation in warehouse or closed storage areas. Air contaminants generated in the workplace possess varying "escape" velocities which, in turn, determine the "capture velocities" of fresh circulating air required to effectively remove the contaminant.

Type of Contaminant:	Air Speed:
solvent, vapours, degreasing etc., evaporating from tank (in still air)	0.25-0.5 m/s (50-100 f/min)
aerosols, fumes from pouring operations, intermittent container filling, low speed conveyer transfers, welding, spray drift, plating acid fumes, pickling (released at low velocity into zone of active generation)	0.5-1 m/s (100-200 f/min.)
direct spray, spray painting in shallow booths, drum filling, conveyer loading, crusher dusts, gas discharge (active generation into zone of rapid air motion)	1-2.5 m/s (200-500 f/min)

Continued...

grinding, abrasive blasting, tumbling, high speed wheel generated dusts (released at high initial velocity into zone of very high rapid air motion).	2.5-10 m/s (500-2000 f/min.)

Within each range the appropriate value depends on:

Lower end of the range	Upper end of the range
1: Room air currents minimal or favourable to capture	1: Disturbing room air currents
2: Contaminants of low toxicity or of nuisance value only	2: Contaminants of high toxicity
3: Intermittent, low production.	3: High production, heavy use
4: Large hood or large air mass in motion	4: Small hood - local control only

Simple theory shows that air velocity falls rapidly with distance away from the opening of a simple extraction pipe. Velocity generally decreases with the square of distance from the extraction point (in simple cases). Therefore the air speed at the extraction point should be adjusted, accordingly, after reference to distance from the contaminating source. The air velocity at the extraction fan, for example, should be a minimum of 1-2 m/s (200-400 f/min.) for extraction of solvents generated in a tank 2 meters distant from the extraction point. Other mechanical considerations, producing performance deficits within the extraction apparatus, make it essential that theoretical air velocities are multiplied by factors of 10 or more when extraction systems are installed or used.

Personal protection

Eye and face protection

- Safety glasses with side shields
- Chemical goggles.
- Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task. This should include a review of lens absorption and adsorption for the class of chemicals in use and an account of injury experience. Medical and first-aid personnel should be trained in their removal and suitable equipment should be readily available. In the event of chemical exposure, begin eye irrigation immediately and remove contact lens as soon as practicable. Lens should be removed at the first signs of eye redness or irritation - lens should be removed in a clean environment only after workers have washed hands thoroughly. [CDC NIOSH Current Intelligence Bulletin 59], [AS/NZS 1336 or national equivalent]

Skin protection

See Hand protection below

Hands/feet protection

- Wear chemical protective gloves, e.g. PVC.
- Wear safety footwear or safety gumboots, e.g. Rubber

The selection of suitable gloves does not only depend on the material, but also on further marks of quality which vary from manufacturer to manufacturer. Where the chemical is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.
The exact break through time for substances has to be obtained from the manufacturer of the protective gloves and has to be observed when making a final choice.
Personal hygiene is a key element of effective hand care. Gloves must only be worn on clean hands. After using gloves, hands should be washed and dried thoroughly. Application of a non-perfumed moisturizer is recommended.
Suitability and durability of glove type is dependent on usage. Important factors in the selection of gloves include:

- frequency and duration of contact,
- chemical resistance of glove material,
- glove thickness and
- dexterity

Select gloves tested to a relevant standard (e.g. Europe EN 374, US F739, AS/NZS 2161.1 or national equivalent).

- When prolonged or frequently repeated contact may occur, a glove with a protection class of 5 or higher (breakthrough time greater than 240 minutes according to EN 374, AS/NZS 2161.10.1 or national equivalent) is recommended.
- When only brief contact is expected, a glove with a protection class of 3 or higher (breakthrough time greater than 60 minutes according to EN 374, AS/NZS 2161.10.1 or national equivalent) is recommended.
- Some glove polymer types are less affected by movement and this should be taken into account when considering gloves for long-term use.
- Contaminated gloves should be replaced.

For general applications, gloves with a thickness typically greater than 0.35 mm, are recommended.
It should be emphasised that glove thickness is not necessarily a good predictor of glove resistance to a specific chemical, as the permeation efficiency of the glove will be dependent on the exact composition of the glove material. Therefore, glove selection should also be based on consideration of the task requirements and knowledge of breakthrough times.
Glove thickness may also vary depending on the glove manufacturer, the glove type and the glove model. Therefore, the manufacturers' technical data should always be taken into account to ensure selection of the most appropriate glove for the task.
Note: Depending on the activity being conducted, gloves of varying thickness may be required for specific tasks. For example:

- Thinner gloves (down to 0.1 mm or less) may be required where a high degree of manual dexterity is needed. However, these gloves are only likely to give short duration protection and would normally be just for single use applications, then disposed of.
- Thicker gloves (up to 3 mm or more) may be required where there is a mechanical (as well as a chemical) risk i.e. where there is abrasion or puncture potential

Gloves must only be worn on clean hands. After using gloves, hands should be washed and dried thoroughly. Application of a non-perfumed moisturiser is recommended.

Body protection

See Other protection below

Other protection

- Overalls.
- P.V.C. apron.
- Barrier cream.
- Skin cleansing cream.
- Eye wash unit.

Thermal hazards

Not Available

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance	Text

Continued...

Physical state	Liquid	**Relative density (Water = 1)**	Not Available
Odour	Not Available	**Partition coefficient n-octanol / water**	Not Available
Odour threshold	Not Available	**Auto-ignition temperature (°C)**	Not Available
pH (as supplied)	8.5	**Decomposition temperature**	Not Available
Melting point / freezing point (°C)	Not Available	**Viscosity (cSt)**	Not Available
Initial boiling point and boiling range (°C)	Not Available	**Molecular weight (g/mol)**	Not Available
Flash point (°C)	Not Available	**Taste**	Not Available
Evaporation rate	Not Available	**Explosive properties**	Not Available
Flammability	Not Available	**Oxidising properties**	Not Available
Upper Explosive Limit (%)	Not Available	**Surface Tension (dyn/cm or mN/m)**	Not Available
Lower Explosive Limit (%)	Not Available	**Volatile Component (%vol)**	Not Available
Vapour pressure (kPa)	Not Available	**Gas group**	Not Available
Solubility in water (g/L)	Immiscible	**pH as a solution (1%)**	Not Available
Vapour density (Air = 1)	Not Available	**VOC g/L**	Not Available

SECTION 10 STABILITY AND REACTIVITY

Reactivity	See section 7
Chemical stability	▸ Unstable in the presence of incompatible materials. ▸ Product is considered stable. ▸ Hazardous polymerisation will not occur.
Possibility of hazardous reactions	See section 7
Conditions to avoid	See section 7
Incompatible materials	See section 7
Hazardous decomposition products	See section 5

SECTION 11 TOXICOLOGICAL INFORMATION

Information on toxicological effects

Inhaled	The material is not thought to produce either adverse health effects or irritation of the respiratory tract following inhalation (as classified by EC Directives using animal models). Nevertheless, adverse systemic effects have been produced following exposure of animals by at least one other route and good hygiene practice requires that exposure be kept to a minimum and that suitable control measures be used in an occupational setting.
Ingestion	Accidental ingestion of the material may be harmful; animal experiments indicate that ingestion of less than 150 gram may be fatal or may produce serious damage to the health of the individual.
Skin Contact	The liquid may be miscible with fats or oils and may degrease the skin, producing a skin reaction described as non-allergic contact dermatitis. The material is unlikely to produce an irritant dermatitis as described in EC Directives . Open cuts, abraded or irritated skin should not be exposed to this material Entry into the blood-stream, through, for example, cuts, abrasions or lesions, may produce systemic injury with harmful effects. Examine the skin prior to the use of the material and ensure that any external damage is suitably protected.
Eye	Although the liquid is not thought to be an irritant (as classified by EC Directives), direct contact with the eye may produce transient discomfort characterised by tearing or conjunctival redness (as with windburn).
Chronic	Long-term exposure to the product is not thought to produce chronic effects adverse to the health (as classified by EC Directives using animal models); nevertheless exposure by all routes should be minimised as a matter of course. There has been some concern that this material can cause cancer or mutations but there is not enough data to make an assessment.

Plexitrac Binder Red 8400	TOXICITY	IRRITATION
	Not Available	Not Available

ethylene glycol	TOXICITY	IRRITATION
	Dermal (rabbit) LD50: 9530 mg/kg[2]	Eye (rabbit): 100 mg/1h - mild
	Inhalation (rat) LC50: 50.1 mg/L/8 hr[2]	Eye (rabbit): 12 mg/m3/3D
	Oral (rat) LD50: 4700 mg/kg[2]	Eye (rabbit): 1440mg/6h-moderate
		Eye (rabbit): 500 mg/24h - mild
		Skin (rabbit): 555 mg(open)-mild

C.I. Pigment Green 17	TOXICITY	IRRITATION

Continued...

	Oral (rat) LD50: >5000 mg/kg[1]	Not Available

red iron oxide	TOXICITY	IRRITATION
	Oral (rat) LD50: >5,000 mg/kg[2]	Eye (rabbit): non-irritant
		Skin (rabbit): non-irritant 24h

Legend:	*1. Value obtained from Europe ECHA Registered Substances - Acute toxicity 2.* Value obtained from manufacturer's SDS. Unless otherwise specified data extracted from RTECS - Register of Toxic Effect of chemical Substances*

ETHYLENE GLYCOL	For ethylene glycol: Ethylene glycol is quickly and extensively absorbed through the gastrointestinal tract. Limited information suggests that it is also absorbed through the respiratory tract; dermal absorption is apparently slow. Following absorption, ethylene glycol is distributed throughout the body according to total body water. [Estimated Lethal Dose (human) 100 ml; RTECS quoted by Orica] Substance is reproductive effector in rats (birth defects). Mutagenic to rat cells.
C.I. PIGMENT GREEN 17	The following information refers to contact allergens as a group and may not be specific to this product. Contact allergies quickly manifest themselves as contact eczema, more rarely as urticaria or Quincke's oedema. The pathogenesis of contact eczema involves a cell-mediated (T lymphocytes) immune reaction of the delayed type. On skin and inhalation exposure, chromium and its compounds (except hexavalent) can be a potent sensitiser, as particulates. Studies show that they have a complex toxicity mechanism with hexavalent chromium associated with an increased risk of lung damage and respiratory cancers (primarily bronchogenic and nose cancers). However, there is no evidence that elemental, divalent, or trivalent chromium compounds causes cancer or genetic toxicity. The substance is classified by IARC as Group 3: **NOT** classifiable as to its carcinogenicity to humans. Evidence of carcinogenicity may be inadequate or limited in animal testing. Substance has been investigated as a mutagen in bacteria and rodents and a tumorigen by intraperitoneal, intrapleural and intratracheal administration to rats.

Acute Toxicity	✔	**Carcinogenicity**	⊘
Skin Irritation/Corrosion	⊘	**Reproductivity**	⊘
Serious Eye Damage/Irritation	⊘	**STOT - Single Exposure**	⊘
Respiratory or Skin sensitisation	⊘	**STOT - Repeated Exposure**	⊘
Mutagenicity	⊘	**Aspiration Hazard**	⊘

Legend: ✘ *– Data available but does not fill the criteria for classification*
✔ *– Data available to make classification*
⊘ *– Data Not Available to make classification*

SECTION 12 ECOLOGICAL INFORMATION

Toxicity

Ingredient	Endpoint	Test Duration (hr)	Species	Value	Source
ethylene glycol	LC50	96	Fish	2284.940mg/L	3
ethylene glycol	EC50	48	Crustacea	5046.29mg/L	5
ethylene glycol	EC50	96	Algae or other aquatic plants	6500-13000mg/L	1
ethylene glycol	EC50	Not Applicable	Crustacea	=10mg/L	1
ethylene glycol	NOEC	552	Crustacea	>=1000mg/L	2
C.I. Pigment Green 17	LC50	96	Fish	>0.001mg/L	2
C.I. Pigment Green 17	EC50	72	Algae or other aquatic plants	>0.1481mg/L	2
C.I. Pigment Green 17	EC50	504	Crustacea	>0.0144mg/L	2
C.I. Pigment Green 17	NOEC	96	Fish	0.001mg/L	2
red iron oxide	LC50	96	Fish	0.05mg/L	2
red iron oxide	EC50	72	Algae or other aquatic plants	18mg/L	2
red iron oxide	EC50	504	Crustacea	4.49mg/L	2
red iron oxide	NOEC	504	Fish	0.52mg/L	2

Legend:	*Extracted from 1. IUCLID Toxicity Data 2. Europe ECHA Registered Substances - Ecotoxicological Information - Aquatic Toxicity 3. EPIWIN Suite V3.12 (QSAR) - Aquatic Toxicity Data (Estimated) 4. US EPA, Ecotox database - Aquatic Toxicity Data 5. ECETOC Aquatic Hazard Assessment Data 6. NITE (Japan) - Bioconcentration Data 7. METI (Japan) - Bioconcentration Data 8. Vendor Data*

For Chromium: Chromium is poorly absorbed by cells found in microorganisms, plants and animals. Hexavalent chromate anions are readily transported into cells and toxicity is closely linked to the higher oxidation state.
Ecotoxicity - Toxicity in Aquatic Organisms: Chromium is harmful to aquatic organisms in very low concentrations. Organisms consumed by fish species are very sensitive to low levels of chromium. Chromium is toxic to fish although less so in warm water. Marked decreases in toxicity are found with increasing pH or water hardness; changes in salinity have little if any effect. Chromium appears to make fish more susceptible to infection. High concentrations can damage and/or accumulate in various fish tissues and in invertebrates such as snails and worms. Reproduction of water fleas is affected by exposure to 0.01 mg/kg hexavalent chromium/L. Toxicity of chromium in fresh-water organisms resulted in mortality rates of 50%. The most sensitive species to the hexavalent chromium anion are invertebrates, scud, fathead minnow, rainbow trout, cladoceran and water flea vertebrate species and guppy.
Toxicity in Microorganisms: In general, toxicity for most microorganisms occurs in the range of 0.05 -5 mg chromium/kg. Trivalent chromium is less toxic than the hexavalent form. The main signs of toxicity are inhibition of growth and the inhibition of photosynthesis or protein synthesis. Gram-negative soil bacteria are generally more sensitive to hexavalent chromium (1-12 mg/kg) than the gram-positive types. Toxicity to trivalent chromium is not observed at similar levels. Soil microbial transformation processes such as nitrification may be affected by low levels of hexavalent chromium (1 mg/kg). Chromium should not be introduced to municipal sewage treatment facilities.
Toxicity in Plants: Chromium in high concentrations can be toxic for plants. The main feature of chromium intoxication is chlorosis, which is similar to iron deficiency. Chromium affects carbohydrate metabolism and leaf chlorophyll concentration decreases with hexavalent chromium concentration (0.01-1 mg/L). The hexavalent form appears to more toxic than the trivalent species.
Water Standards: Chromium is identified as a hazardous substance in the Federal (U.S.) Water Pollution Control Act and further regulated by Clean Air Water Act Amendments (US). These

Continued...

regulations apply to discharge. The US Primary drinking water Maximum Contaminant Level (MCL), for chromium, is 0.05 mg/L. (total chromium).
For chromium:
Aquatic Fate - Most chromium released into water will be deposited in the sediment. A small percentage of chromium can be found in soluble and insoluble forms with soluble chromium making up a very small percentage of the total chromium. Most of the soluble chromium is present as chromium (VI) and soluble chromium (III) complexes. In the aquatic phase, chromium (III) occurs mostly as suspended solids adsorbed onto clayish materials, organics, or iron oxide present in water. Soluble forms and suspended chromium can undergo intramedia transport. Chromium (VI) in water will eventually be reduced to chromium (III) by organic matter in the water. This process may be slower depending on the type and amount of organic material present and on the redox condition of the water. The reaction was generally faster under anaerobic than aerobic conditions. The oxidation of chromium (III) to chromium (VI) during chlorination of water was highest in the pH range of 5.5 - 6.0.
Atmospheric Fate: Transport of chromium from water to the atmosphere is not likely, except by transport in windblown sea sprays.
Terrestrial Fate: Ecotoxicity - Bioaccumulation is not expected to occur in rainbow trout. Bioaccumulation in bottom feeder bivalves, such as the oyster, blue mussel, and soft shell clam is low. Chromium ranges from slightly toxic to highly toxic in water fleas. Chromium is not expected to biomagnify in the aquatic food chain. Chromium (III) has very low solubility and low mobility in the environment and low toxicity in living organisms. In these forms, chromium is relatively soluble, mobile, and toxic to living organisms. Plants - Bioaccumulation of chromium from soil to above-ground parts of plants is unlikely. There is no indication of biomagnification of chromium along the terrestrial food chain (soil-plant-animal). Chromium concentration in plants may vary with geographic location. Soil - Chromium (VI) may be present in soil as chromate and chromic acid. The fate of chromium in soil is dependent upon the chromium species, which is a function of redox potential and soil pH. Most commonly, soil chromium is in the chromium (III) state. In deeper, anaerobic soils, chromium (VI) will be reduced to chromium (III) by disulfur and ferrous sulfate in soil. The reduction of chromium (VI) to chromium (III) is possible in aerobic soils that contain appropriate organic energy sources. The reduction of chromium (VI) to chromium (III) is facilitated by low pH. Chromium (VI) may exist in the aerobic zone of some natural soil. The oxidation of chromium (III) to chromium (VI) is facilitated by the presence of low oxidisable organic substances, oxygen, manganese dioxide, and moisture. However, when availability of mobile chromium (III) is low, a large portion of chromium in soil will not be oxidized to chromium (VI), even in the presence of magnesium dioxide and favorable pH. Organic forms of chromium (III) are more easily oxidized than insoluble oxides. Factors affecting the microbial reduction of chromium (VI) to chromium (III) include biomass concentration, initial chromium (VI) concentration, temperature, pH, carbon source, oxidation-reduction potential and the presence of both oxyanions and metal cations. Although high levels of chromium (VI) are toxic to most microbes, several resistant bacterial species have been identified which could ultimately be employed in remediation strategies. Most soil chromium is present mainly as insoluble chromium oxide and nH20 and is not very mobile. Chromium was not found in leachate from soil, possibly because it formed complexes with organic matter. The leachability of chromium (VI) increases as soil pH increases. A small percentage of total chromium in soil exists as soluble chromium (VI) and chromium (III), which are more mobile in soil. Sorption depends primarily on the clay content of the soil and, to a lesser extent, on the amount of iron oxide and the organic content. Ecotoxicity: Chromium irreversibly sorbed onto soil will not be bio-available to plants and animals under any condition.
Atmospheric Fate: Chromium in soil may be transported to the atmosphere as an aerosol. The low pH of acid rain may facilitate leaching of acid-soluble chromium (III) and (VI) into soil. In the atmosphere, chromium (VI) may be reduced to chromium (III) at a significant rate if vanadium (V2+, V3+ and VO+), ferrous sulfate, bicarbonate ions and arsenic are present. The estimated half life of atmospheric chromium (VI) reduction to chromium (III) has been reported to be from 16 hrs to about 5 days. Aquatic Fate: Surface runoff can transport soluble and bulk precipitates of chromium to surface water. Soluble and unadsorbed chromium (III) and (VI) complexes in soil may leach into groundwater.
DO NOT discharge into sewer or waterways.

Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
ethylene glycol	LOW (Half-life = 24 days)	LOW (Half-life = 3.46 days)

Bioaccumulative potential

Ingredient	Bioaccumulation
ethylene glycol	LOW (BCF = 200)

Mobility in soil

Ingredient	Mobility
ethylene glycol	HIGH (KOC = 1)

SECTION 13 DISPOSAL CONSIDERATIONS

Waste treatment methods

Product / Packaging disposal

- Containers may still present a chemical hazard/ danger when empty.
- Return to supplier for reuse/ recycling if possible.

Otherwise:

- If container can not be cleaned sufficiently well to ensure that residuals do not remain or if the container cannot be used to store the same product, then puncture containers, to prevent re-use, and bury at an authorised landfill.
- Where possible retain label warnings and SDS and observe all notices pertaining to the product.

Legislation addressing waste disposal requirements may differ by country, state and/ or territory. Each user must refer to laws operating in their area. In some areas, certain wastes must be tracked.
A Hierarchy of Controls seems to be common - the user should investigate:

- Reduction
- Reuse
- Recycling
- Disposal (if all else fails)

This material may be recycled if unused, or if it has not been contaminated so as to make it unsuitable for its intended use. If it has been contaminated, it may be possible to reclaim the product by filtration, distillation or some other means. Shelf life considerations should also be applied in making decisions of this type.
Note that properties of a material may change in use, and recycling or reuse may not always be appropriate.

- **DO NOT** allow wash water from cleaning or process equipment to enter drains.
- It may be necessary to collect all wash water for treatment before disposal.
- In all cases disposal to sewer may be subject to local laws and regulations and these should be considered first.
- Where in doubt contact the responsible authority.
- Recycle wherever possible.
- Consult manufacturer for recycling options or consult local or regional waste management authority for disposal if no suitable treatment or disposal facility can be identified.
- Dispose of by: burial in a land-fill specifically licensed to accept chemical and / or pharmaceutical wastes or incineration in a licensed apparatus (after admixture with suitable combustible material).
- Decontaminate empty containers. Observe all label safeguards until containers are cleaned and destroyed.

SECTION 14 TRANSPORT INFORMATION

Labels Required

Marine Pollutant	NO

Continued...

Land transport (DOT): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Air transport (ICAO-IATA / DGR): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Sea transport (IMDG-Code / GGVSee): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Transport in bulk according to Annex II of MARPOL and the IBC code

Not Applicable

SECTION 15 REGULATORY INFORMATION

Safety, health and environmental regulations / legislation specific for the substance or mixture

ETHYLENE GLYCOL(107-21-1) IS FOUND ON THE FOLLOWING REGULATORY LISTS

US - Alaska Limits for Air Contaminants
US - California OEHHA/ARB - Chronic Reference Exposure Levels and Target Organs (CRELs)
US - California Permissible Exposure Limits for Chemical Contaminants
US - California Proposition 65 - Reproductive Toxicity
US - Hawaii Air Contaminant Limits
US - Massachusetts - Right To Know Listed Chemicals
US - Michigan Exposure Limits for Air Contaminants
US - Minnesota Permissible Exposure Limits (PELs)
US - Oregon Permissible Exposure Limits (Z-1)
US - Pennsylvania - Hazardous Substance List
US - Rhode Island Hazardous Substance List
US - Tennessee Occupational Exposure Limits - Limits For Air Contaminants
US - Vermont Permissible Exposure Limits Table Z-1-A Final Rule Limits for Air Contaminants
US - Vermont Permissible Exposure Limits Table Z-1-A Transitional Limits for Air Contaminants
US - Washington Permissible exposure limits of air contaminants
US - Washington Toxic air pollutants and their ASIL, SQER and de minimis emission values
US ACGIH Threshold Limit Values (TLV)
US ACGIH Threshold Limit Values (TLV) - Carcinogens
US ACGIH Threshold Limit Values (TLV) - Notice of Intended Changes
US ATSDR Minimal Risk Levels for Hazardous Substances (MRLs)
US Clean Air Act - Hazardous Air Pollutants
US EPCRA Section 313 Chemical List
US NIOSH Recommended Exposure Limits (RELs)
US Spacecraft Maximum Allowable Concentrations (SMACs) for Airborne Contaminants
US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory

C.I. PIGMENT GREEN 17(1308-38-9) IS FOUND ON THE FOLLOWING REGULATORY LISTS

US - Alaska Limits for Air Contaminants
US - California Permissible Exposure Limits for Chemical Contaminants
US - Hawaii Air Contaminant Limits
US - Idaho - Limits for Air Contaminants
US - Massachusetts - Right To Know Listed Chemicals
US - Michigan Exposure Limits for Air Contaminants
US - Minnesota Permissible Exposure Limits (PELs)
US - Oregon Permissible Exposure Limits (Z-1)
US - Rhode Island Hazardous Substance List
US - Tennessee Occupational Exposure Limits - Limits For Air Contaminants
US - Vermont Permissible Exposure Limits Table Z-1-A Final Rule Limits for Air Contaminants
US - Vermont Permissible Exposure Limits Table Z-1-A Transitional Limits for Air Contaminants
US - Wyoming Toxic and Hazardous Substances Table Z1 Limits for Air Contaminants
US ATSDR Minimal Risk Levels for Hazardous Substances (MRLs)
US Clean Air Act - Hazardous Air Pollutants
US CWA (Clean Water Act) - Priority Pollutants
US CWA (Clean Water Act) - Toxic Pollutants
US EPA Carcinogens Listing
US EPCRA Section 313 Chemical List
US NIOSH Recommended Exposure Limits (RELs)
US OSHA Permissible Exposure Levels (PELs) - Table Z1
US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory

RED IRON OXIDE(1309-37-1) IS FOUND ON THE FOLLOWING REGULATORY LISTS

US - Alaska Limits for Air Contaminants
US - California Permissible Exposure Limits for Chemical Contaminants
US - Hawaii Air Contaminant Limits
US - Idaho - Limits for Air Contaminants
US - Massachusetts - Right To Know Listed Chemicals
US - Michigan Exposure Limits for Air Contaminants
US - Minnesota Permissible Exposure Limits (PELs)
US - Oregon Permissible Exposure Limits (Z-1)
US - Pennsylvania - Hazardous Substance List
US - Rhode Island Hazardous Substance List
US - Tennessee Occupational Exposure Limits - Limits For Air Contaminants
US - Vermont Permissible Exposure Limits Table Z-1-A Final Rule Limits for Air Contaminants
US - Vermont Permissible Exposure Limits Table Z-1-A Transitional Limits for Air Contaminants
US - Washington Permissible exposure limits of air contaminants
US - Wyoming Toxic and Hazardous Substances Table Z1 Limits for Air Contaminants
US ACGIH Threshold Limit Values (TLV)
US ACGIH Threshold Limit Values (TLV) - Carcinogens
US NIOSH Recommended Exposure Limits (RELs)
US OSHA Permissible Exposure Levels (PELs) - Table Z1
US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory

Federal Regulations

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SECTION 311/312 HAZARD CATEGORIES

Immediate (acute) health hazard	Yes
Delayed (chronic) health hazard	No
Fire hazard	No
Pressure hazard	No
Reactivity hazard	No

US. EPA CERCLA HAZARDOUS SUBSTANCES AND REPORTABLE QUANTITIES (40 CFR 302.4)

Name	Reportable Quantity in Pounds (lb)	Reportable Quantity in kg
Ethylene glycol	5000	2270

State Regulations

US. CALIFORNIA PROPOSITION 65

WARNING: This product contains a chemical known to the State of California to cause cancer and birth defects or other reproductive harm

Continued...

US - CALIFORNIA PREPOSITION 65 - CARCINOGENS & REPRODUCTIVE TOXICITY (CRT): LISTED SUBSTANCE

Ethylene glycol (ingested) Listed

National Inventory	Status
Australia - AICS	Y
Canada - DSL	Y
Canada - NDSL	N (red iron oxide; ethylene glycol; C.I. Pigment Green 17)
China - IECSC	Y
Europe - EINEC / ELINCS / NLP	Y
Japan - ENCS	Y
Korea - KECI	Y
New Zealand - NZIoC	Y
Philippines - PICCS	Y
USA - TSCA	Y
Legend:	*Y = All ingredients are on the inventory* *N = Not determined or one or more ingredients are not on the inventory and are not exempt from listing(see specific ingredients in brackets)*

SECTION 16 OTHER INFORMATION

CONTACT POINT

PLEASE NOTE THAT TITANIUM DIOXIDE IS NOT PRESENT IN CLEAR OR NEUTRAL BASES

Other information

Ingredients with multiple cas numbers

Name	CAS No
C.I. Pigment Green 17	1308-38-9, 68909-79-5
red iron oxide	1332-37-2, 1309-37-1

Classification of the preparation and its individual components has drawn on official and authoritative sources as well as independent review by the Chemwatch Classification committee using available literature references.
The SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment. Many factors determine whether the reported Hazards are Risks in the workplace or other settings. Risks may be determined by reference to Exposures Scenarios. Scale of use, frequency of use and current or available engineering controls must be considered.

Definitions and abbreviations

PC—TWA: Permissible Concentration-Time Weighted Average
PC—STEL: Permissible Concentration-Short Term Exposure Limit
IARC: International Agency for Research on Cancer
ACGIH: American Conference of Governmental Industrial Hygienists
STEL: Short Term Exposure Limit
TEEL: Temporary Emergency Exposure Limit。
IDLH: Immediately Dangerous to Life or Health Concentrations
OSF: Odour Safety Factor
NOAEL :No Observed Adverse Effect Level
LOAEL: Lowest Observed Adverse Effect Level
TLV: Threshold Limit Value
LOD: Limit Of Detection
OTV: Odour Threshold Value
BCF: BioConcentration Factors
BEI: Biological Exposure Index

Styrene Butadiene Rubber (SBR)

ASTM D1418 & ISO 1629 Designation: **SBR**
ASTM D2000, SAE J200 Type/Class: **AA, BA**
Mil-R-3065 (Mil-Std 417) Class: **RS**

Liberty TIRE RECYCLING

Advantages: Similar properties to NR but with improved ageing and temperature resistance; good dynamic, mechanical and fatigue properties; high strength, resilience and abrasion properties; good resistance to many inorganic chemicals.

Limitations: Suffers from poor tear strength, oxidation, ozone, UV and weathering; limited oil resistance; not recommended for use in contact with acids and organic liquids; temperature resistance is still low.

Physical & Mechanical Properties

Durometer or Hardness Range:	30-95 Shore A
Tensile Strength Range:	500 - 2,900 PSI
Elongation (Range%):	450% - 600%
Abrasion Resistance:	Excellent
Adhesion to Metal:	Excellent
Adhesion to Rigid Materials:	Excellent
Compression Set:	Good to Excellent
Flex Cracking Resistance:	Good
Impact Resistance:	Excellent
Resilience/Rebound:	Good
Tear Resistance:	Fair to Excellent
Vibration Dampening:	Fair to Good

Thermal Properties

General Temperature Range	-60°F to 250°F
Min. for continuous Use (Static):	-60°F
Brittle Point:	-80°F
Max. for Continuous Use (Static):	225°F

Environmental Performance

Colorability:	Good
Flame Resistance:	Poor
Gas Permeability:	Fair
Odor:	Good
Ozone Resistance:	Poor
Oxidation Resistance:	Fair to Excellent
Radiation Resistance:	Poor to Good
Steam Resistance:	Fair to Good
Sunlight Resistance:	Poor
Weather Resistance:	Fair to Good
Water Resistance:	Good to Excellent

Chemical Resistance

Acids, Dilute:	Fair to Good
Acids, Concentrated:	Poor to Fair
Acids, Organic (Dilute):	Good
Acids, Organic (Concentrated):	Poor to Good
Alcohols:	Good
Aldehydes:	Poor to Fair
Alkalies, Dilute:	Fair to Good
Alkalies, Concentrated:	Fair to Good
Amines:	Poor to Good
Animal & Vegetable Oils:	Poor to Good
Brake Fluids, Non-Petroleum Based:	Poor to Good
Diester Oils:	Poor
Esters, Alkyl Phosphate:	Poor
Esters, Aryl Phosphate:	Poor
Esthers:	Poor
Fuel, Aliphatic Hydrocarbon:	Poor
Fuel, Aromatic Hydrocarbon:	Poor
Fuel, Extended (Oxygenated):	Poor
Halogenated Solvents:	Poor
Hydrocarbon, Halogenated:	Poor
Ketones (MEK, acetone):	Poor to Good
Lacquer Solvents:	Poor
LP Gases & Fuel Oils:	Poor
Mineral Oils:	Poor
Oil Resistance:	Poor
Petroleum Aromatic:	Poor
Petroleum Non-Aromatic:	Poor
Refrigerant Ammonia:	Good
Refrigerant Halofluorocarbons:	R-12, R13
Refrigerant Halofluorocarbons w/ Oil:	Poor
Silicone Oil:	Poor
Solvent Resistance:	Poor

TAB 6
REFERENCES

Provide at least ten (10) customer references for products and/or services of similar scope dating within the past three (3) years. Please provide a range of references across all eligible government entity groups including K-12, higher education, city, county, or non-profit entities.

All references should include the following information from the entity:

- Entity Name
- Contact Name and Title
- City and State
- Phone
- Email
- Years Serviced
- Description of Services
- Annual Volume

NCPA also accepts Procurated review scores to evaluate relationships with their customers. Vendors without a current Procurated score will be rated based solely on the references provided, and will not be penalized for lack of Procurated scoring. To find out your company's Procurated score please go to https://www.procurated.com.

Provide a minimum of ten (10) customer references for products and/or services of similar scope dating within the past three (3) years. Please provide a range of references across all eligible government entity groups including K-12, higher education, city, county, or non-profit entities. All references should include the following information from the entity:

Entity Name: Wolcott High School
Contact Name and Title: Chuck Warrington, Project Manager
City and State: Wolcott, CT
Phone: 860-395-0055
Year(s) Serviced: 2022
Description of Product and Services rendered: Reconstruction and renovation of synthetic running track surface in a two-tone colorway of Red & Grey BSS-100 surface. Includes long jump, triple jump and pole vault runways.
Contract Amount: $219,413.00

Entity Name: Barnstable High School
Contact Name and Title: Michael Lambros, Director Facilities
City and State: Barnstable, MA
Phone: 508-790-6490 Ext: 1096
Year(s) Serviced: 2022
Description of Product and Services rendered: Reconstruction and renovation of synthetic running track surface in a two-tone colorway of Red & Black BSS-100 surface. Includes long jump, triple jump and pole vault runways. Line Painting, Custom Logo & Jump Pit Covers
Contract Amount: $400,416.63

Entity Name: Eastern Connecticut State University
Contact Name and Title: Jim Fielding, Facility Management and Planning
City and State: Willimantic, CT
Phone: 860-465-0239
Year(s) Serviced: 2022
Description of Product and Services rendered: Reconstruction and renovation of an NCAA level synthetic running track surface of Red BSS-100 surface. Includes long jump, triple jump and pole vault runways, surface removal, asphalt removal, mill & pave.
Contract Amount: $611,450.00

Entity Name: Foran High School
Contact Name and Title: Patrick Bradbury, Director of Facilities
City and State: Milford, CT
Phone: 203-783-3432
Year(s) Serviced: 2022
Description of Product and Services rendered: Reconstruction and renovation of a synthetic running track surface of Red BSS-100 surface. Includes long jump, triple jump and pole vault runways, surface removal, asphalt removal, mill & pave.
Contract Amount: $493,600

Entity Name: Barnstable Parks & Recreation Department, Pickleball Facility
Contact Name and Title: Greg Antman, Project Manager
City and State: Marston Mills, MA
Phone: 508-790-6324
Year(s) Serviced:
Description of Product and Services rendered: Construction of outdoor open air pickleball facility in the village of Marston Mills in the town of Barnstable MA. Construction of post tension concrete pickleball & tennis facility consisting of 10 pickleball courts & 2 tennis courts. Project was awarded as the **Pickleball Facility of Year for American Sports Builders Association.**
Contract Amount: $ 492,450.00

Entity Name: Cheshire Academy
Contact Name and Title: Matt Piechota, CFO
City and State: Cheshire, CT
Phone: 203-439-7200
Year(s) Serviced: 2022
Description of Product and Services rendered: Reconstruction and renovation of synthetic running track surface in a two-tone colorway of Blue & Grey BSS-100 surface. Includes long jump, triple jump and pole vault runways. Construction of 3 post-tension concrete Tennis Courts on the campus of Cheshire Academy.
Contract Amount: $676,000.00

Entity Name: Inter-Lakes High School
Contact Name and Title: Brian Swanker, Facility Director
City and State: Meredith, NH
Phone: 603-279-7947
Year(s) Serviced: 2022
Description of Product and Services rendered: Repair and resurface of synthetic running track surface in a two-tone colorway of Red & Southern Blue BSS-100 surface. Includes long jump, triple jump and pole vault runways.
Contract Amount: $142,160.00

Entity Name: Bloomfield High School
Contact Name and Title: Tammy Shonelmayer, Athletic Director
City and State: Bloomfield, CT
Phone: 860-286-2630
Year(s) Serviced: 2021
Description of Product and Services rendered: Reconstruction and renovation of synthetic running track surface in a two-tone colorway of a BSS-100 surface. Includes long jump, triple jump and pole vault runways.
Contract Amount: $575,345.00

Entity Name: Town of Needham, Defazio Field
Contact Name and Title: Edward Olsen, Superintendent of Parks & Recreation
City and State: Needham, MA
Phone: 781-455-7550 Ext 316
Year(s) Serviced: 2021
Description of Product and Services rendered: Repair and resurface of synthetic running track surface in a two-tone colorway of Red BSS-100 surface. Includes long jump, triple jump and pole vault runways.
Contract Amount: $130,010.00

Entity Name: Wilton High School
Contact Name and Title: Steve Pearce, Director of Parks
City and State: Wilton, CT
Phone: 203-834-6234 Ext: 6
Year(s) Serviced: 2021
Description of Product and Services rendered: Reconstruction and renovation of synthetic running track surface in a two-tone colorway of Blue & Blue BSS-300 surface. Includes long jump, triple jump and pole vault runways.
Contract Amount: $991,840.00

Cape and Island
TENNIS & TRACK
28 Commerce Park Rd PO Box 1100 Pocasset, MA 02559 (508) 759-5636 FAX (508) 563-7915

Beynon References

2022	Arch Bishop Williams High	Beynon BSS-100	Dennis Duggan	President	781-353-6066
2022	Reading High School	Beynon BSS-100	Mark Novak	Designer	781-326-2600
2022	Dighton-Rehoboth High School	Beynon BSS-100	Doug Kelly	Dean of Athletics	508-252-5008
2022	Taunton High School	Beynon BSS-100	Mark Ottavianelli	Athletic Director	508-821-1150
2022	Mashpee High School	Beynon BSS-100	Peter Spanos	Designer	617-880-9900
2022	Barnstable High School	Beynon BSS-100	John Amato	Designer	978-692-0247
2022	Seekonk High School	Beynon BSS-100	Chris Huntress	Designer	978-352-4666
2022	Cohasset High School	Beynon BSS-100	Susan Owen	Dir of Finance	781-383-6100 Ext 2302
2022	Norton High School	Beynon BSS-100	Peter Spanos	Designer	617-880-9900
2021	Defazio Field, Needham Ma	Beynon BSS-100	Ed Olsen	Parks & Rec	781-389-7262
2021	Nashoba Regional High School	Beynon BSS-100	Robert Frieswick	Facility Director	978-779-0539
2021	Minuteman High School	Beynon BSS-100	Richard Ikonen	Asst Facility Dir	781-274-1018
2021	Bridgewater State University	Beynon BSS-100	Mike Donovan	Facility Supervisor	508-531-2385
2020	Haverhill High School	Beynon BSS-300	Josh Kinsen	Designer	857-210-7161
2020	Falmouth High School	Beynon BSS-300	Scott Gelfi	Road Race Chair	508-457-1085
2019	Daniel Hand High School	Beynon BSS-100	Craig W. Semple	Director Athletics	203-245-6484
2019	Foxborough High School	Beynon BSS-100	Joe Cusack	AD	508-543-1632
2018	Carver High School, MA	Beynon, BSS-100 Red	Benjamin Gleason, RLA	Designer	781-355-7048
2018	Freeport High School, ME	Beynon, BSS-300	Craig Sickels	Athletic Administrator	207-865-4706
2018	Gordon College, MA	Beynon, BSS-300	Peter Amadon	Asst Athletic Director	978-290-2572
2018	Holbrook High School, MA	Beynon, BSS-100 Blue	Brendan Case	Athletic Director	781-767-4616
2018	Kearsarge High School, NH	Beynon, BSS-100 Blue	Todd M. Fleury	Facilities Director	603-526-2051
2018	Lynnfield High School, MA	Beynon, BSS-100 Red	Peter Spanos	Designer	617-880-9900
2018	New Canaan High School, CT	Beynon, BSS-300	Jay Egan	Athletic Director	203-594-4600
2018	New London High School, CT	Beynon, BSS-100 Red	Kasimu Fletcher	Interim Athletic Director	860-437-6435
2018	Pelham High School, NH	Beynon, BSS-100 Blue	Deborah Mahoney	Business Administrator	603-635-1145
2018	Pembroke High School, MA	Beynon, BSS-100 Red	Justin Domingo	Athletic Director	781-829-0832
2018	Pope Francis Preparatory, MA	Beynon, BSS-100 Red	Mr. John Goda	Athletic Director	413-331-2480
2018	Warren Harding High School, CT	Beynon, BSS-200 Red	Daniel Coleman	Athletic Director	203-275-1000
2018	Winthrop High School, MA	Beynon, BSS-100 Red	Matt Serino	Athletic Director	617-846-5505
2017	Governor's Academy, MA	Beynon, BSS-300	Tom Woodruff	Dir. of Buildings and Grounds	978-499-3105
2017	Northeastern University, MA	Beynon, BSS-1000	David Fraizer	Director of Athletic Fac.	617-373-6189
2017	Manchester West High School, NH	Beynon, BSS-100 Red	Brad Mezquita, PE	Designer	603-433-8818

2017	Southern New Hampshire University, NH	Beynon, BSS-1000	Lex Butler	Head Coach Track & Field	603-645-9736
2017	St. John's Prep, MA	Beynon, BSS-100 Red	John Amato, PE	Designer	978-692-0247
2017	Nystrom's Pond Park, CT	Beynon, BSS-100 Red	Dan Kroeber	Designer	203-271-1773
2016	Notre Dame Academy, MA	Beynon, BSS-100	Arthur Eddy	Designer	401-383-4950
2016	West Warwick High School, RI	Beynon, BSS-100	Kenneth Townsend	Director of Facilities	401-822-8443
2016	Clark University, MA	Beynon, BSS-100	Mark Novak	Designer	781-355-7043
2016	Plymouth South High School, MA	Beynon, BSS-100	Arthur Eddy	Designer	401-383-4950
2016	East Hartford High School, CT	Beynon, BSS-100	Albert Costa	Director of Facilities	860-622-5952
2016	West Bridgewater High School, MA	Beynon, BSS-100	Steve Barrett	Athletic Director	508-894-1230
2016	Danvers High Schools, MA	Beynon, BSS-100	Michael Noonan	Designer	
2016	Narragansett High School, RI	Beynon, BSS-100	John Perry	Designer	781-335-6465
2016	Marianapolis Preparatory School, CT	Beynon, BSS-100	Doug Daniels	CFO	860-923-9565
2016	Marlborough Middle School, MA	Beynon, BSS-100	Megan Buczynski	Designer	781-355-7040
2016	Newburyport High School-Bradley Fuller Track, MA	Beynon, BSS-100	Chris Huntress	Designer	978-352-4666
2016	Shawsheen Valley Regional High School, MA	Beynon, BSS-100	Al Constable	Designer	978-671-3632
2015	Bryant University, RI	Beynon, BSS-1000	John Ruppert	Sr. Associate Dir. of Athletics	401-232-6737
2015	Boston College High School, MA	Beynon, BSS-100	Mark Novak	Designer	781-355-7043
2015	Phillips Academy, MA	BSS 100 Blue	Casey Russo	Capital Projects Manager	978-749-4346
2015	Austin Preparatory School, MA	Beynon, BSS-100	Sean Boyd	Designer	781-335-6465
2015	Conard High School, CT	Beynon, BSS-100	Bill Phibbs	Capital Projects Manager	860-561-7523
2015	Cushman Park, Fairhaven, MA	Beynon, BSS-100	Scott Francis	Athletic Director	508-979-4000
2015	Emmett O'Brien Technical HS, CT	BSS-200	John Stewart	Designer	860-658-1988
2015	Hamden High School, CT	Beynon, BSS-100	Dan Kroeber	Designer	203-271-1773
2015	Hampshire Regional High School, MA	Beynon, BSS-100	Ann Trytko	Athletic Director	413-527-7680
2015	Malden Catholic High School, MA	Beynon, BSS-100	Johnathon Charwick	Designer	781-355-7046
2015	North Branford High School, CT	Beynon, BSS-100	Bill Choti	Director of Facilities	203-627-8982
2015	Phillips Academy, MA	BSS 100 Blue	Casey Russo	Capital Projects Mgr	978-749-4346
2015	Shepard Hill Regional High School, MA	Beynon, BSS-100	Sean Boyd	Designer	781-335-6465
2015	South Windsor High School, CT	Beynon, BSS-100	Patrick Hankard	Director of Facilities	860-291-1220
2015	Apponequet High School, MA	Beynon, BSS-100	Jim Cabucio	Athletic Director	508-947-2660
2014	New Britain High School, CT	Beynon, BSS-1000	Richard Webb	Designer	978-474-1721
2014	Bertram Field, Salem HS, MA	Beynon, BSS-100	Chris Huntress	Designer	978-470-8882
2014	East Boston Stadium, MA	Beynon, BSS-100	Chris Huntress	Designer	978-470-8882
2014	Essex North Shore Agricultural and Technical High School, MA	Beynon, BSS-100	David Warner	Designer	617-464-1440
2014	Portsmouth High School, RI	Beynon, BSS-100	Peter Spanos	Designer	781-335-6465
2014	Southwick-Tolland Regional High School , MA	Beynon, BSS-100	Chuck Warrington	Project Manager	860-235-5313

2014	Torrington High School, CT	Beynon, BSS-100	Ed Arem	Field Committee Chairman	860-309-7923
2014	Nashoba Valley Technical High School, MA	Beynon, BSS-100	Bradlee Mezquita	Designer	603-433-8818
2013	Providence College, RI	13 mm BSS 1000	Mark Rapoza	Asst. VP for Capital Projects	401-865-1000
2013	Wesleyan University, CT	Beynon, BSS-1000	Robert Schmidt	Project Manager	860-685-2259
2013	Colby Sawyer College, NH	Beynon, BSS-100	Bob Vachon	Senior Director, Facilities	603-526-3698
2013	St. Paul's School, NH	Beynon, BSS-300	Derek Russell	Facilities Engineering	603-229-4685
2013	Xaverian Brothers High School, MA	Beynon, BSS-100	Charles Stevenson	Athletic Director	781-326-6392
2013	East Lyme High School, CT	Beynon, BSS-100	Steve Hargis	Athletic Director	860-739-6946
2013	Granby High School, CT	BSS 200	John Stewart	Designer	860-658-1988
2013	Innovation Academy, MA	Beynon, BSS-100	William Seymour	Designer	781-335-6465
2013	McCarthy Middle School, MA	Beynon, BSS-100	Scott Moreau	Athletic Director	978-251-5131
2013	Oxford High School, CT	Beynon, BSS-100	Bryan Mesteriak	Project Engineer	203-881-8145
2013	Ponaganset High School, RI	Beynon, BSS-100	Joe McGovern	Director of Buildings and Grounds	401-647-2430
2013	Sharon High School, MA	Beynon, BSS-100	Ken Wertz	Director of Maintenance and Operations	781-784-1570
2013	Smith Track, Laconia, NH	Beynon, BSS-100	Kevin Dunleavy	Director of Recreation and Facilities	603-524-5046
2013	Waterford High School, CT	Beynon, BSS-1000	David Sousa	Athletic Director	860-447-7927
2012	Berkshire School, MA	Beynon, BSS-300	Timothy Fulco	Director of Facility Management	(413) 229-1337
2012	Braintree High School, MA	BSS 100 Blue	Chris Huntress	Designer	(617) 470-8882
2012	Springfield College, MA	Beynon, BSS-300	Dr. Cathie Schweitzer	Athletic Director	(413) 748-3335
2012	Hopkinton High School, MA	Beynon, BSS-100	William Seymour	Designer	(781) 335-6465
2012	Pine Bank Park, Melrose, MA	Beynon, BSS-100	Patrick Maguire	Designer	(617) 834-7286
2012	Quincy High School, MA	Beynon, BSS-100	Geoff Hennessy	Head Track Coach	
2012	Plymouth North High School, MA	BSS 100 Blue	Eric Foley	Athletic Director	(508) 830-4400
2011	Cheshire High School, CT	BSS 100, Red	Steve Trifone	Athletic Director	(203) 250-2552
2011	Brockton High School, MA	BSS 100, Red	Tom Kenney	Athletic Director	(508) 580-7546
2011	Catholic Memorial High School, MA	BSS 100, Red	Sean Reardon	Designer	(508) 903-2000
2011	College of the Holy Cross, MA	BSS-1000	Jim Kavanagh	Head Track Coach	(508) 793-2317
2011	Hanover High School, MA	BSS 100, Red	Fran Coyle	Athletic Director	(781) 878-5450
2011	Sandwich High School, MA	BSS 100, Red	John Amato	Designer	(978) 692-0247
2011	Windham High School, ME	BSS 100, Red	Bill Hanson	Director of Facilities	(207) 892-1800
2010	Bridgewater State University, MA	BSS 100, Red	Keith Macdonald	Director of Physical Plant	(508) 531-1345
2010	Harvard University, MA	BSS 300, Red	Jason Saretsky	Director of Track & Field/Cross Country	
2010	New Bedford High School, MA	BSS 100, Red	Ben Gary	Designer	(781) 245-7699

2010	Brattleboro High School, VT	BSS 100, Red	Dick Webb	Designer	(978) 369-2890
2010	Newton South High School, MA	BSS 100, Red	William Seymour	Designer	(781) 335-6465
2010	Belmont Hill School, MA	BSS 100, Red	David Nardone	Designer	(617) 226-9490
2010	Londonderry High School, NH	BSS 100, Red	Suzanne Johnson	Girls Track Coach	(603) 432-6941
2010	Coginchaug High School, CT	BSS 100, Red	Dick Webb	Designer	(978) 369-2890
2009	Archbishop Williams High School, MA	Beynon, BSS-100	Joseph Francis	Athletic Director	(781) 843-1237
2009	East Greenwich High School, RI	Beynon, BSS-100	Vincent Varrecchione	Athletic Director	(401) 398-1660
2009	Regis College, MA	Beynon, BSS-100	John Amato	Designer	(978) 692-0247
2009	Old Lyme High School, CT	Beynon, BSS-100	Dick Webb	Designer	(978) 369-2890
2009	Killingly High School, CT	Beynon, BSS-100	Barry Blades	Designer	(203) 225-9223
2009	Boston University Nickerson Field, MA	Beynon BSS-1000	Alan Weinberger	Assistant A.D., Facilities	(617) 353-2771
2009	Gillette Stadium, MA	Beynon BSS 1000	John Bengston	Field Manager	
2009	North Reading High School, MA	BSS 100, Red	William Seymour	Designer	(781) 335-6465

Cape & Island Tennis & Track

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Plexitrac Accelerator Installations

SCHOOL/LOCATION	STATE	YEAR	SURFACE	CONTACT	PHONE
East Longmeadow	MA	2022	Plexitrac Accelerator Respray Red	Peter Spanos	781-335-6465
Duxbury High	MA	2022	Plexitrac Accelerator	Chris Hulk	203-676-4445
RI School for the Deaf	MA	2022	Plexitrac Accelerator Respray Red	Amy Vincenzi	401-243-1018
Wachusett Regional High	MA	2022	Plexitrac Accelerator	Mark Wilde	774-696-6004
Ashland High School	MA	2021	Plexitrac Accelerator	Steven Marks	508-532-8022
Cawley Stadium, Lowell	MA	2021	Plexitrac Accelerator	Chris Huntress	978-758-6290
East Providence High	RI	2021	Plexitrac Accelerator	Arthur Eddy	401-383-4950
Dracut High School	MA	2020	Plexitrac Accelerator	Chris Huntress	978-758-6290
North Kingston High	RI	2020	Plexitrac Accelerator	Arthur Eddy	401-383-4950
Oxford High	MA	2020	Plexitrac Accelerator	Kevin May	508-868-6940
Gloucester High	MA	2019	Plexitrac Accelerator	Scott Amero	978-281-9877
Norwich Academy	CT	2019	Plexitrac Accelerator	Roy Wentworth	860-425-5512
Wilbraham Monson Academy	MA	2019	Plexitrac Accelerator	Christopher Reed	413-596-9120
Berlin High School	CT	2018	Plexitrac Accelerator Respray Red	Tom Linden	860-249-1801
Beverly High School	MA	2018	Plexitrac Accelerator Red	Arthur Eddy	401-383-4950
Foley Stadium - Worcester	MA	2018	Plexitrac Accelerator Respray Red	Larry Greene	508-366-6552
Shrewsbury High School	MA	2018	Plexitrac Accelerator Red	Jay Costa	508-841-8840
Assabet Valley Tech	MA	2017	Plexitrac Accelerator	Chris Huntress	978-470-8882
Greater Lawrence Tech	MA	2017	Plexitrac Accelerator	Peter Spanos	781-335-6465
Ferguson Field	RI	2016	Plexitrac Accelerator	Amy Kean	401-232-1400
The Nick, Wolfeboro	NH	2016	Plexitrac Accelerator Resurface	Holly Williams-Aucoin	603-569-1909
Lincoln Sudbury Regional High School	MA	2016	Plexitrac Accelerator Resurface	Kevin Rosley	978-443-9961
Andover High School	MA	2016	Plexitrac Accelerator Resurface	Mark Masella	978-352-4666
Alvirne High School	NH	2016	Plexitrac Accelerator	Chris Huntress	978-470-8882
Harry Della Russo Stadium, Revere	MA	2015	Plexitrac Accelerator	Frank Shea	781-266-8242
West Roxbury Educational Complex	MA	2015	Plexitrac Accelerator	Glen Howard	617-452-6630
Cawley Stadium, Lowell	MA	2014	Plexitrac Accelerator	Jim DeProfio	978-937-8950
Dracut High School	MA	2014	Plexitrac Accelerator	Ben Gary	781-245-7699
Johnston High School	RI	2014	Plexitrac Accelerator	Arthur Eddy	401-383-4950
Tewksbury Memorial High School	MA	2014	Plexitrac Accelerator	Peter Lukacic	617-575-0314
Wethersfield High School	CT	2014	Plexitrac Accelerator	Mark Fisher	860-612-1700
Douglas Elementary School	MA	2013	Plexitrac Accelerator	Kevin Maines	508-476-7310
Gloucester High School	MA	2013	Plexitrac Accelerator	Scott Landgren	617-452-6814
Marshfield High School	MA	2013	Plexitrac Accelerator	Arthur Eddy	401-383-4950
Monomoy High School	MA	2013	Plexitrac Accelerator	Ben Gary	781-245-7699
Somerset Berkley Regional HS	MA	2013	Plexitrac Accelerator	Arthur Eddy	401-383-4950
Wakefield Memorial High School	MA	2013	Plexitrac Accelerator	Scott Landgren	617-452-6814
Wilmington High School	MA	2013	Plexitrac Accelerator	Edward Harrison	978-694-6060
Randolph High School	MA	2012	Plexitrac Accelerator	Chris Huntress	(978) 470-8882
Milford High School	MA	2012	Plexitrac Accelerator	Scott Langdren	(617) 452-6000
Littleton High School	MA	2012	Plexitrac Accelerator	Lindsey Barbee	(781) 335-6465
Hingham High School	MA	2012	Plexitrac Accelerator	Margaret Conaty	(781) 741-1560
Ashland High School	MA	2012	Plexitrac Accelerator	Joe Marshall	(781) 245-7699

TAB 7
PRICING

Please submit price list electronically via our online Bonfire portal (pricing can be submitted as Discount off MSRP, cost plus, etc). Products, services, warranties, etc. should be included in price list. Prices submitted will be used to establish the extent of a respondent's products and services (Tab 5) that are available and also establish pricing per item.

Price lists must contain the following:

- Product name and part number (include both manufacturer part number and respondent part number if different from manufacturers).
- Description
- Vendor's List Price
- Percent Discount to NCPA participating entities

Not To Exceed Pricing

- NCPA requests pricing be submitted as "not to exceed pricing" for any participating entity.
- The awarded vendor can adjust submitted pricing lower but cannot exceed original pricing submitted for solicitation.
- NCPA requests that vendor honor lower pricing for similar size and scope purchases to other members.

2023 -24 NCPA 2% Admin Fee Tracks

Massachusetts Service Labor Rates All Lots -Track Surfacing	Unit of Measure	Track Installer Bid to CO-OP Division	State Multiplier	Price w/Mult	2% NCPA Admin Fee	Total Multiplier	Total Price to Client
Track Surfacing Systems							
3/8" Plexitrac Lighting (black water-based)	Per Sq. Yd.	$ 29.25	1.15	$ 33.64	1.02	1.1730	$ 34.31
1/2" Plexitrac Lighting (black water-based)	Per Sq. Yd.	$ 34.65	1.15	$ 39.85	1.02	1.1730	$ 40.64
1/2" Plexitrac Accelerator (red water-based)	Per Sq. Yd.	$ 44.78	1.15	$ 51.50	1.02	1.1730	$ 52.53
1/2" BSS-100 (red BMSS)	Per Sq. Yd.	$ 47.63	1.15	$ 54.77	1.02	1.1730	$ 55.87
1/2" BSS-200 (red BMSS)	Per Sq. Yd.	$ 59.63	1.15	$ 68.57	1.02	1.1730	$ 69.95
15mm BSS-300 Embedded (red SW)	Per Sq. Yd.	$ 73.15	1.14	$ 83.39	1.02	1.1628	$ 85.06
10mm BSS-1000 Embedded (red FP)	Per Sq. Yd.	$ 77.35	1.12	$ 86.63	1.02	1.1424	$ 88.36
13mm BSS-1000 Embedded (red FP)	Per Sq. Yd.	$ 92.61	1.12	$ 103.72	1.02	1.1424	$ 105.80
13mm BSS-2000 Embedded (red butyl FP)	Per Sq. Yd.	$ 100.43	1.12	$ 112.48	1.02	1.1424	$ 114.73
13mm BSS-3000 Embedded (red FP)	Per Sq. Yd.	$ 114.21	1.11	$ 126.77	1.02	1.1322	$ 129.31
OPTIONAL BSS-300/1000/2000 Varnish	Per Sq. Yd.	$ 13.20	1.11	$ 14.65	1.02	1.1322	$ 14.95
OPTIONAL BSS-300/1000/2000 Encapsulated	Per Sq. Yd.	$ 3.90	1.30	$ 5.07	1.02	1.3260	$ 5.17
Maintenance Track Surfaces							
Plexitrac Lighting Resurface (black SBR layers)	Per Sq. Yd.	$ 16.25	1.15	$ 18.69	1.02	1.1730	$ 19.06
Plexitrac Accelerator Resurface (red EPDM layers)	Per Sq. Yd.	$ 25.50	1.15	$ 29.33	1.02	1.1730	$ 29.91
BSS-100/200 top (structural sprays)	Per Sq. Yd.	$ 24.98	1.15	$ 28.73	1.02	1.1730	$ 29.30
5mm BSS-300/1000/2000 Top (FP resurface)	Per Sq. Yd.	$ 54.75	1.13	$ 61.87	1.02	1.1526	$ 63.10
Service Labor Rates All Lots							
Project Design, Development or Consultant	Per Hour	$ 200.00	1.00	$ 200.00	1.02	1.0200	$ 204.00
Professional Engineering Services	Per Hour	$ 200.00	1.00	$ 200.00	1.02	1.0200	$ 204.00
Installer (Tradesman)	Per Hour	$ 48.10	1.70	$ 81.77	1.02	1.7340	$ 83.41
Paving (Not to Exceed Pricing)	Per Ton	$ 217.50	1.00	$ 217.50	1.02	1.02	$ 221.85

2023 -24 NCPA 2% Admin Fee Tennis Courts

Massachusetts Service Labor Rates All Lots -Tennis Surfacing	Unit of Measure	Tennis Installer Bid to CO-OP Division	State Multiplier	Price w/Mult	NCPA Admin Fee 2%	Total Multiplier	Total Price to Client
Tennis Surfacing Systems							
Plexipave System	Per Sq Yard	$ 26.53	1.3	$ 8.00	1.02	1.33	$ 8.15
Additional Coats of Plexipave	Per Sq Yard	$ 6.50	1.34	$ 2.25	1.02	1.37	$ 2.30
Tennis and Basketball Court Construction							
Asphalt Court Construction	Per Sq Yard	$ 103.00	1.1	$ 48.10	1.02	1.12	$ 49.07
Post Tensioned Concrete Court Installation	Per Sq Yard	$ 207.00	1.17	$ 88.46	1.02	1.19	$ 89.98
Service Labor Rates All Lots							
Project Design, Development or Consultant	Per Hour	$ 265.00	1	$ 160.00	1.02	1.02	$ 163.20
Professional Engineering Services	Per Hour	$ 265.00	1	$ 160.00	1.02	1.02	$ 163.20
Installer (Tradesman)	Per Hour	$ 78.78	1.7	$ 62.90	1.02	1.73	$ 64.16
Paving (Not to Exceed Pricing)	Per Ton	$ 305.00	1	$ 145.00	1.02	1.02	$ 147.90

2023 -24 NCPA 2% Admin Fee Tracks

Connecticut Service Labor Rates All Lots -Track Surfacing	Unit of Measure	Track Installer Bid to CO-OP Division	State Multiplier	Price w/Mult	2% NCPA Admin Fee	Total Multiplier	Total Price to Client
Track Surfacing Systems							
3/8" Plexitrac Lighting (black water-based)	Per Sq. Yd.	$ 29.25	1.15	$ 33.64	1.02	1.1730	$ 34.31
1/2" Plexitrac Lighting (black water-based)	Per Sq. Yd.	$ 34.65	1.15	$ 39.85	1.02	1.1730	$ 40.64
1/2" Plexitrac Accelerator (red water-based)	Per Sq. Yd.	$ 44.78	1.15	$ 51.50	1.02	1.1730	$ 52.53
1/2" BSS-100 (red BMSS)	Per Sq. Yd.	$ 47.63	1.15	$ 54.77	1.02	1.1730	$ 55.87
1/2" BSS-200 (red BMSS)	Per Sq. Yd.	$ 59.63	1.15	$ 68.57	1.02	1.1730	$ 69.95
15mm BSS-300 Embedded (red SW)	Per Sq. Yd.	$ 73.15	1.14	$ 83.39	1.02	1.1628	$ 85.06
10mm BSS-1000 Embedded (red FP)	Per Sq. Yd.	$ 77.35	1.12	$ 86.63	1.02	1.1424	$ 88.36
13mm BSS-1000 Embedded (red FP)	Per Sq. Yd.	$ 92.61	1.12	$ 103.72	1.02	1.1424	$ 105.80
13mm BSS-2000 Embedded (red butyl FP)	Per Sq. Yd.	$ 100.43	1.12	$ 112.48	1.02	1.1424	$ 114.73
13mm BSS-3000 Embedded (red FP)	Per Sq. Yd.	$ 114.21	1.11	$ 126.77	1.02	1.1322	$ 129.31
OPTIONAL BSS-300/1000/2000 Varnish	Per Sq. Yd.	$ 13.20	1.11	$ 14.65	1.02	1.1322	$ 14.95
OPTIONAL BSS-300/1000/2000 Encapsulated	Per Sq. Yd.	$ 3.90	1.30	$ 5.07	1.02	1.3260	$ 5.17
Maintenance Track Surfaces							
Plexitrac Lighting Resurface (black SBR layers)	Per Sq. Yd.	$ 16.25	1.00	$ 16.25	1.02	1.0200	$ 16.58
Plexitrac Accelerator Resurface (red EPDM layers)	Per Sq. Yd.	$ 25.50	1.12	$ 28.56	1.02	1.1424	$ 29.13
BSS-100/200 top (structural sprays)	Per Sq. Yd.	$ 24.98	1.12	$ 27.98	1.02	1.1424	$ 28.54
5mm BSS-300/1000/2000 Top (FP resurface)	Per Sq. Yd.	$ 54.75	1.13	$ 61.87	1.02	1.1526	$ 63.10
Service Labor Rates All Lots							
Project Design, Development or Consultant	Per Hour	$ 200.00	1.00	$ 200.00	1.02	1.0200	$ 204.00
Professional Engineering Services	Per Hour	$ 200.00	1.00	$ 200.00	1.02	1.0200	$ 204.00
Installer (Tradesman)	Per Hour	$ 48.10	1.70	$ 81.77	1.02	1.7340	$ 83.41
Paving (Not to Exceed Pricing)	Per Ton	$ 217.50	1.00	$ 217.50	1.02	1.02	$ 221.85

2023 -24 NCPA 2% Admin Fee Tennis Courts

Connecticut Service Labor Rates All Lots -Tennis Surfacing	Unit of Measure	Tennis Installer Bid to CO-OP Division	State Multiplier	Price w/Mult	NCPA Admin Fee 2%	Total Multiplier	Total Price to Client
Tennis Surfacing Systems							
Plexipave System	Per Sq Yard	$ 26.53	1.30	$ 34.49	$ 1.02	$ 1.33	$ 35.18
Additional Coats of Plexipave	Per Sq Yard	$ 6.50	1.34	$ 8.71	$ 1.02	$ 1.37	$ 8.88
Tennis and Basketball Court Construction							
Asphalt Court Construction	Per Sq Yard	$ 103.00	1.10	$ 113.30	$ 1.02	$ 1.12	$ 115.57
Post Tensioned Concrete Court Installation	Per Sq Yard	$ 207.00	1.17	$ 242.19	1.02	1.19	$ 247.03
Service Labor Rates All Lots							
Project Design, Development or Consultant	Per Hour	$ 265.00	1.00	$ 265.00	$ 1.02	$ 1.02	$ 270.30
Professional Engineering Services	Per Hour	$ 265.00	1.00	$ 265.00	$ 1.02	$ 1.02	$ 270.30
Installer (Tradesman)	Per Hour	$ 78.78	1.70	$ 133.93	$ 1.02	$ 1.73	$ 136.60
Paving (Not to Exceed Pricing)	Per Ton	$ 305.00	1.00	$ 305.00	$ 1.02	$ 1.02	$ 311.10

2023 -24 NCPA 2% Admin Fee Tracks

Rhode Island Service Labor Rates All Lots -Track Surfacing	Unit of Measure	Track Installer Bid to CO-OP Division	State Multiplier	Price w/Mult	2% NCPA Admin Fee	Total Multiplier	Total Price to Client
Track Surfacing Systems							
3/8" Plexitrac Lighting (black water-based)	Per Sq. Yd.	$ 29.25	1.15	$ 33.64	1.02	1.1730	$ 34.31
1/2" Plexitrac Lighting (black water-based)	Per Sq. Yd.	$ 34.65	1.15	$ 39.85	1.02	1.1730	$ 40.64
1/2" Plexitrac Accelerator (red water-based)	Per Sq. Yd.	$ 44.78	1.15	$ 51.50	1.02	1.1730	$ 52.53
1/2" BSS-100 (red BMSS)	Per Sq. Yd.	$ 47.63	1.15	$ 54.77	1.02	1.1730	$ 55.87
1/2" BSS-200 (red BMSS)	Per Sq. Yd.	$ 59.63	1.15	$ 68.57	1.02	1.1730	$ 69.95
15mm BSS-300 Embedded (red SW)	Per Sq. Yd.	$ 73.15	1.14	$ 83.39	1.02	1.1628	$ 85.06
10mm BSS-1000 Embedded (red FP)	Per Sq. Yd.	$ 77.35	1.12	$ 86.63	1.02	1.1424	$ 88.36
13mm BSS-1000 Embedded (red FP)	Per Sq. Yd.	$ 92.61	1.12	$ 103.72	1.02	1.1424	$ 105.80
13mm BSS-2000 Embedded (red butyl FP)	Per Sq. Yd.	$ 100.43	1.12	$ 112.48	1.02	1.1424	$ 114.73
13mm BSS-3000 Embedded (red FP)	Per Sq. Yd.	$ 114.21	1.11	$ 126.77	1.02	1.1322	$ 129.31
OPTIONAL BSS-300/1000/2000 Varnish	Per Sq. Yd.	$ 13.20	1.11	$ 14.65	1.02	1.1322	$ 14.95
OPTIONAL BSS-300/1000/2000 Encapsulated	Per Sq. Yd.	$ 3.90	1.30	$ 5.07	1.02	1.3260	$ 5.17
Maintenance Track Surfaces							
Plexitrac Lighting Resurface (black SBR layers)	Per Sq. Yd.	$ 16.25	1.15	$ 18.69	1.02	1.1730	$ 19.06
Plexitrac Accelerator Resurface (red EPDM layers)	Per Sq. Yd.	$ 25.50	1.15	$ 29.33	1.02	1.1730	$ 29.91
BSS-100/200 top (structural sprays)	Per Sq. Yd.	$ 24.98	1.15	$ 28.73	1.02	1.1730	$ 29.30
5mm BSS-300/1000/2000 Top (FP resurface)	Per Sq. Yd.	$ 54.75	1.15	$ 62.96	1.02	1.1730	$ 64.22
Service Labor Rates All Lots							
Project Design, Development or Consultant	Per Hour	$ 200.00	1.00	$ 200.00	1.02	1.0200	$ 204.00
Professional Engineering Services	Per Hour	$ 200.00	1.00	$ 200.00	1.02	1.0200	$ 204.00
Installer (Tradesman)	Per Hour	$ 48.10	1.70	$ 81.77	1.02	1.7340	$ 83.41
Paving (Not to Exceed Pricing)	Per Ton	$ 217.50	1.00	$ 217.50	1.02	1.02	$ 221.85

2023 -24 NCPA 2% Admin Fee Tennis Courts

Rhode Island Service Labor Rates All Lots -Tennis Surfacing	Unit of Measure	Tennis Installer Bid to CO-OP Division	State Multiplier	Price w/Mult	NCPA Admin Fee 2%	Total Multiplier	Total Price to Client
Tennis Surfacing Systems							
Plexipave System	Per Sq Yard	$ 26.53	$ 1.30	$ 34.49	$ 1.02	$ 1.33	$ 35.18
Additional Coats of Plexipave	Per Sq Yard	$ 6.50	$ 1.34	$ 8.71	$ 1.02	$ 1.37	$ 8.88
Tennis and Basketball Court Construction							
Asphalt Court Construction	Per Sq Yard	$ 103.00	$ 1.10	$ 113.30	$ 1.02	$ 1.12	$ 115.57
Post Tensioned Concrete Court Installation	Per Sq Yard	$ 207.00	$ 1.17	$ 242.19	$ 1.02	$ 1.19	$ 247.03
Service Labor Rates All Lots							
Project Design, Development or Consultant	Per Hour	$ 265.00	$ 1.00	$ 265.00	$ 1.02	$ 1.02	$ 270.30
Professional Engineering Services	Per Hour	$ 265.00	$ 1.00	$ 265.00	$ 1.02	$ 1.02	$ 270.30
Installer (Tradesman)	Per Hour	$ 78.78	$ 1.70	$ 133.93	$ 1.02	$ 1.73	$ 136.60
Paving (Not to Exceed Pricing)	Per Ton	$ 305.00	$ 1.00	$ 305.00	$ 1.02	$ 1.02	$ 311.10

2023 -24 NCPA 2% Admin Fee Tracks

Maine Service Labor Rates All Lots -Track Surfacing	Unit of Measure	Track Installer Bid to CO-OP Division	State Multiplier	Price w/Mult	2% NCPA Admin Fee	Total Multiplier	Total Price to Client
Track Surfacing Systems							
3/8" Plexitrac Lighting (black water-based)	Per Sq. Yd.	$ 29.25	1.00	$ 29.25	1.02	1.0200	$ 29.84
1/2" Plexitrac Lighting (black water-based)	Per Sq. Yd.	$ 34.65	1.00	$ 34.65	1.02	1.0200	$ 35.34
1/2" Plexitrac Accelerator (red water-based)	Per Sq. Yd.	$ 44.78	1.00	$ 44.78	1.02	1.0200	$ 45.68
1/2" BSS-100 (red BMSS)	Per Sq. Yd.	$ 47.63	1.00	$ 47.63	1.02	1.0200	$ 48.58
1/2" BSS-200 (red BMSS)	Per Sq. Yd.	$ 59.63	1.00	$ 59.63	1.02	1.0200	$ 60.82
15mm BSS-300 Embedded (red SW)	Per Sq. Yd.	$ 73.15	1.00	$ 73.15	1.02	1.0200	$ 74.61
10mm BSS-1000 Embedded (red FP)	Per Sq. Yd.	$ 77.35	1.00	$ 77.35	1.02	1.0200	$ 78.90
13mm BSS-1000 Embedded (red FP)	Per Sq. Yd.	$ 92.61	1.00	$ 92.61	1.02	1.0200	$ 94.46
13mm BSS-2000 Embedded (red butyl FP)	Per Sq. Yd.	$ 100.43	1.00	$ 100.43	1.02	1.0200	$ 102.44
13mm BSS-3000 Embedded (red FP)	Per Sq. Yd.	$ 114.21	1.00	$ 114.21	1.02	1.0200	$ 116.49
OPTIONAL BSS-300/1000/2000 Varnish	Per Sq. Yd.	$ 13.20	1.00	$ 13.20	1.02	1.0200	$ 13.46
OPTIONAL BSS-300/1000/2000	Per Sq. Yd.	$ 3.90	1.00	$ 3.90	1.02	1.0200	$ 3.98
Maintenance Track Surfaces							
Plexitrac Lighting Resurface (black SBR	Per Sq. Yd.	$ 16.25	1.00	$ 16.25	1.02	1.0200	$ 16.58
Plexitrac Accelerator Resurface (red EPDM	Per Sq. Yd.	$ 25.50	1.00	$ 25.50	1.02	1.0200	$ 26.01
BSS-100/200 top (structural sprays)	Per Sq. Yd.	$ 24.98	1.00	$ 24.98	1.02	1.0200	$ 25.48
5mm BSS-300/1000/2000 Top (FP	Per Sq. Yd.	$ 54.75	1.00	$ 54.75	1.02	1.0200	$ 55.85
Service Labor Rates All Lots							
Project Design, Development or Consultant	Per Hour	$ 200.00	1.00	$ 200.00	1.02	1.0200	$ 204.00
Professional Engineering Services	Per Hour	$ 200.00	1.00	$ 200.00	1.02	1.0200	$ 204.00
Installer (Tradesman)	Per Hour	$ 48.10	1.00	$ 48.10	1.02	1.0200	$ 49.06
Paving (Not to Exceed Pricing)	Per Ton	$ 217.50	1.00	$ 217.50	1.02	1.02	$ 221.85

2023 -24 NCPA 2% Admin Fee Tennis Courts

Maine Service Labor Rates All Lots -Tennis Surfacing	Unit of Measure	Tennis Installer Bid to CO-OP Division	State Multiplier	Price w/Mult	NCPA Admin Fee 2%	Total Multiplier	Total Price to Client
Tennis Surfacing Systems							
Plexipave System	Per Sq Yard	$ 26.53	1.00	$ 26.53	$ 1.02	$ 1.02	$ 27.06
Additional Coats of Plexipave	Per Sq Yard	$ 6.50	1.00	$ 6.50	$ 1.02	$ 1.02	$ 6.63
Tennis and Basketball Court Construction							
Asphalt Court Construction	Per Sq Yard	$ 103.00	1.00	$ 103.00	$ 1.02	$ 1.02	$ 105.06
Post Tensioned Concrete Court Installation	Per Sq Yard	$ 207.00	1.00	$ 207.00	$ 1.02	$ 1.02	$ 211.14
Service Labor Rates All Lots							
Project Design, Development or Consultant	Per Hour	$ 265.00	1.00	$ 265.00	$ 1.02	$ 1.02	$ 270.30
Professional Engineering Services	Per Hour	$ 265.00	1.00	$ 265.00	$ 1.02	$ 1.02	$ 270.30
Installer (Tradesman)	Per Hour	$ 78.78	1.00	$ 78.78	$ 1.02	$ 1.02	$ 80.36
Paving (Not to Exceed Pricing)	Per Ton	$ 305.00	1.00	$ 305.00	$ 1.02	$ 1.02	$ 311.10

2023 -24 NCPA 2% Admin Fee Tracks

New Hampshire Service Labor Rates All Lots -Track Surfacing	Unit of Measure	Track Installer Bid to CO-OP Division	State Multiplier	Price w/Mult	2% NCPA Admin Fee	Total Multiplier	Total Price to Client
Track Surfacing Systems							
3/8" Plexitrac Lighting (black water-based)	Per Sq. Yd.	$ 29.25	1.00	$ 29.25	1.02	1.0200	$ 29.84
1/2" Plexitrac Lighting (black water-based)	Per Sq. Yd.	$ 34.65	1.00	$ 34.65	1.02	1.0200	$ 35.34
1/2" Plexitrac Accelerator (red water-based)	Per Sq. Yd.	$ 44.78	1.00	$ 44.78	1.02	1.0200	$ 45.68
1/2" BSS-100 (red BMSS)	Per Sq. Yd.	$ 47.63	1.00	$ 47.63	1.02	1.0200	$ 48.58
1/2" BSS-200 (red BMSS)	Per Sq. Yd.	$ 59.63	1.00	$ 59.63	1.02	1.0200	$ 60.82
15mm BSS-300 Embedded (red SW)	Per Sq. Yd.	$ 73.15	1.00	$ 73.15	1.02	1.0200	$ 74.61
10mm BSS-1000 Embedded (red FP)	Per Sq. Yd.	$ 77.35	1.00	$ 77.35	1.02	1.0200	$ 78.90
13mm BSS-1000 Embedded (red FP)	Per Sq. Yd.	$ 92.61	1.00	$ 92.61	1.02	1.0200	$ 94.46
13mm BSS-2000 Embedded (red butyl FP)	Per Sq. Yd.	$ 100.43	1.00	$ 100.43	1.02	1.0200	$ 102.44
13mm BSS-3000 Embedded (red FP)	Per Sq. Yd.	$ 114.21	1.00	$ 114.21	1.02	1.0200	$ 116.49
OPTIONAL BSS-300/1000/2000 Varnish	Per Sq. Yd.	$ 13.20	1.00	$ 13.20	1.02	1.0200	$ 13.46
OPTIONAL BSS-300/1000/2000 Encapsulated	Per Sq. Yd.	$ 3.90	1.00	$ 3.90	1.02	1.0200	$ 3.98
Maintenance Track Surfaces							
Plexitrac Lighting Resurface (black SBR layers)	Per Sq. Yd.	$ 16.25	1.00	$ 16.25	1.02	1.0200	$ 16.58
Plexitrac Accelerator Resurface (red EPDM layers)	Per Sq. Yd.	$ 25.50	1.00	$ 25.50	1.02	1.0200	$ 26.01
BSS-100/200 top (structural sprays)	Per Sq. Yd.	$ 24.98	1.00	$ 24.98	1.02	1.0200	$ 25.48
5mm BSS-300/1000/2000 Top (FP resurface)	Per Sq. Yd.	$ 54.75	1.00	$ 54.75	1.02	1.0200	$ 55.85
Service Labor Rates All Lots							
Project Design, Development or Consultant	Per Hour	$ 200.00	1.00	$ 200.00	1.02	1.0200	$ 204.00
Professional Engineering Services	Per Hour	$ 200.00	1.00	$ 200.00	1.02	1.0200	$ 204.00
Installer (Tradesman)	Per Hour	$ 48.10	1.00	$ 48.10	1.02	1.0200	$ 49.06
Paving (Not to Exceed Pricing)	Per Ton	$ 217.50	1.00	$ 217.50	1.02	1.02	$ 221.85

2023 -24 NCPA 2% Admin Fee Tennis Courts

New Hampshire Service Labor Rates All Lots -Tennis Surfacing	Unit of Measure	Tennis Installer Bid to CO-OP Division	State Multiplier	Price w/Mult	NCPA Admin Fee 2%	Total Multiplier	Total Price to Client
Tennis Surfacing Systems							
Plexipave System	Per Sq Yard	$ 26.53	1.00	$ 26.53	1.02	1.02	$ 27.06
Additional Coats of Plexipave	Per Sq Yard	$ 6.50	1.00	$ 6.50	1.02	1.02	$ 6.63
Tennis and Basketball Court Construction							
Asphalt Court Construction	Per Sq Yard	$ 103.00	1.00	$ 103.00	1.02	1.02	$ 105.06
Post Tensioned Concrete Court Installation	Per Sq Yard	$ 207.00	1.00	$ 207.00	1.02	1.02	$ 211.14
Service Labor Rates All Lots							
Project Design, Development or Consultant	Per Hour	$ 265.00	1.00	$ 265.00	1.02	1.02	$ 270.30
Professional Engineering Services	Per Hour	$ 265.00	1.00	$ 265.00	1.02	1.02	$ 270.30
Installer (Tradesman)	Per Hour	$ 78.78	1.00	$ 78.78	1.02	1.02	$ 80.36
Paving (Not to Exceed Pricing)	Per Ton	$ 305.00	1.00	$ 305.00	1.02	1.02	$ 311.10

2023 -24 NCPA 2% Admin Fee Tracks

Vermont Service Labor Rates All Lots -Track Surfacing	Unit of Measure	Track Installer Bid to CO-OP Division	State Multiplier	Price w/Mult	2% NCPA Admin Fee	Total Multiplier	Total Price to Client
Track Surfacing Systems							
3/8" Plexitrac Lighting (black water-based)	Per Sq. Yd.	$ 29.25	1.00	$ 29.25	1.02	1.0200	$ 29.84
1/2" Plexitrac Lighting (black water-based)	Per Sq. Yd.	$ 34.65	1.00	$ 34.65	1.02	1.0200	$ 35.34
1/2" Plexitrac Accelerator (red water-based)	Per Sq. Yd.	$ 44.78	1.00	$ 44.78	1.02	1.0200	$ 45.68
1/2" BSS-100 (red BMSS)	Per Sq. Yd.	$ 47.63	1.00	$ 47.63	1.02	1.0200	$ 48.58
1/2" BSS-200 (red BMSS)	Per Sq. Yd.	$ 59.63	1.00	$ 59.63	1.02	1.0200	$ 60.82
15mm BSS-300 Embedded (red SW)	Per Sq. Yd.	$ 73.15	1.00	$ 73.15	1.02	1.0200	$ 74.61
10mm BSS-1000 Embedded (red FP)	Per Sq. Yd.	$ 77.35	1.00	$ 77.35	1.02	1.0200	$ 78.90
13mm BSS-1000 Embedded (red FP)	Per Sq. Yd.	$ 92.61	1.00	$ 92.61	1.02	1.0200	$ 94.46
13mm BSS-2000 Embedded (red butyl FP)	Per Sq. Yd.	$ 100.43	1.00	$ 100.43	1.02	1.0200	$ 102.44
13mm BSS-3000 Embedded (red FP)	Per Sq. Yd.	$ 114.21	1.00	$ 114.21	1.02	1.0200	$ 116.49
OPTIONAL BSS-300/1000/2000 Varnish	Per Sq. Yd.	$ 13.20	1.00	$ 13.20	1.02	1.0200	$ 13.46
OPTIONAL BSS-300/1000/2000 Encapsulated	Per Sq. Yd.	$ 3.90	1.00	$ 3.90	1.02	1.0200	$ 3.98
Maintenance Track Surfaces							
Plexitrac Lighting Resurface (black SBR layers)	Per Sq. Yd.	$ 16.25	1.00	$ 16.25	1.02	1.0200	$ 16.58
Plexitrac Accelerator Resurface (red EPDM layers)	Per Sq. Yd.	$ 25.50	1.00	$ 25.50	1.02	1.0200	$ 26.01
BSS-100/200 top (structural sprays)	Per Sq. Yd.	$ 24.98	1.00	$ 24.98	1.02	1.0200	$ 25.48
5mm BSS-300/1000/2000 Top (FP resurface)	Per Sq. Yd.	$ 54.75	1.00	$ 54.75	1.02	1.0200	$ 55.85
Service Labor Rates All Lots							
Project Design, Development or Consultant	Per Hour	$ 200.00	1.00	$ 200.00	1.02	1.0200	$ 204.00
Professional Engineering Services	Per Hour	$ 200.00	1.00	$ 200.00	1.02	1.0200	$ 204.00
Installer (Tradesman)	Per Hour	$ 48.10	1.00	$ 48.10	1.02	1.0200	$ 49.06
Paving (Not to Exceed Pricing)	Per Ton	$ 217.50	1.00	$ 217.50	1.02	1.02	$ 221.85

2023 -24 NCPA 2% Admin Fee Tennis Courts

Vermont Service Labor Rates All Lots -Tennis Surfacing	Unit of Measure	Tennis Installer Bid to CO-OP Division	State Multiplier	Price w/Mult	NCPA Admin Fee 2%	Total Multiplier	Total Price to Client
Tennis Surfacing Systems							
Plexipave System	Per Sq Yard	$ 26.53	1	$ 26.53	1.02	1.02	$ 27.06
Additional Coats of Plexipave	Per Sq Yard	$ 6.50	1	$ 6.50	1.02	1.02	$ 6.63
Tennis and Basketball Court Construction							
Asphalt Court Construction	Per Sq Yard	$ 103.00	1	$ 103.00	1.02	1.02	$ 105.06
Post Tensioned Concrete Court Installation	Per Sq Yard	$ 207.00	1	$ 207.00	1.02	1.02	$ 211.14
Service Labor Rates All Lots							
Project Design, Development or Consultant	Per Hour	$ 265.00	1	$ 265.00	1.02	1.02	$ 270.30
Professional Engineering Services	Per Hour	$ 265.00	1	$ 265.00	1.02	1.02	$ 270.30
Installer (Tradesman)	Per Hour	$ 78.78	1	$ 78.78	1.02	1.02	$ 80.36
Paving (Not to Exceed Pricing)	Per Ton	$ 305.00	1	$ 305.00	1.02	1.02	$ 311.10

NCPA Pricing for Warranties, Additional Services or Incidentals

Copies of product warranties have been provided under Tab 7 of the Solicitation Response.

Standard Warranty applies to products indicated. There are no additional purchases required to validate the product warranty.

2013 -14 NCPA 2% Admin Fee Tracks

Description of Cost	Unit of	Offeror's Base Bid
Performance and payment bond - bonding	Percent	1%
Bonding capacity - total amount of capacity	Dollar	$10,000,000.00
NCPA Discounts offered on individual	Percent	5%
Alternative methods of costing - percent of	Percent	20%
Discounts offered of alternative costing	Percent	5%
R.S. Means Multiplier/Factor - Normal Hours	Percent	3%
R.S. Means Multiplier/Factor - Out Side of	Percent	3%
Offeror's Support for NCPA Pricing, Percent	Percent	5%

New Construction - NOTE: Below are prices for the surfaces only. CIT&T is prepared to offer turn key solutions for the contstruction of running tracks through the use of Alternative Costing and RS Means. Past experience with Cooperative Purchasing turn key projects confirms our position that the best value

1	2	3	4	5	6	7	8	9.00		
Selected individual products for										
Service Labor Rates All Lots	**Unit of Measure**	**CIT&T Base Bid**	**CTState Mult**	**MA State Mult**	**ME State Mult**	**NH State Mult**	**RI State Mult**	**VT State Mult**	**Material Only (not to exceed)**	**Unit of Measure**
3/8" Plexitrac Lighting (black water-based)	Per Sq	$ 29.25	1.2	1.2	1.0	1.0	1.2	1.0	$ 19.01	Per Sq
1/2" Plexitrac Lighting (black water-based)	Per Sq	$ 34.65	1.2	1.2	1.0	1.0	1.2	1.0	$ 22.52	Per Sq
1/2" Plexitrac Accelerator (red water-based)	Per Sq	$ 44.78	1.2	1.2	1.0	1.0	1.2	1.0	$ 29.11	Per Sq
1/2" BSS-100 (red BMSS)	Per Sq	$ 47.63	1.2	1.2	1.0	1.0	1.2	1.0	$ 30.96	Per Sq
1/2" BSS-200 (red BMSS)	Per Sq	$ 59.63	1.2	1.2	1.0	1.0	1.2	1.0	$ 38.76	Per Sq
15mm BSS-300 Embedded (red SW)	Per Sq	$ 73.15	1.1	1.1	1.0	1.0	1.1	1.0	$ 47.55	Per Sq
10mm BSS-1000 Embedded (red FP)	Per Sq	$ 77.35	1.1	1.1	1.0	1.0	1.1	1.0	$ 50.28	Per Sq
13mm BSS-1000 Embedded (red FP)	Per Sq	$ 92.61	1.1	1.1	1.0	1.0	1.1	1.0	$ 60.20	Per Sq
13mm BSS-2000 Embedded (red butyl FP)	Per Sq	$ 100.43	1.1	1.1	1.0	1.0	1.1	1.0	$ 65.28	Per Sq
13mm BSS-3000 Embedded (red FP)	Per Sq	$ 114.21	1.1	1.1	1.0	1.0	1.1	1.0	$ 74.24	Per Sq
OPTIONAL BSS-300/1000/2000 Varnish	Per Sq	$ 13.20	1.1	1.1	1.0	1.0	1.1	1.0	$ 8.58	Per Sq
OPTIONAL BSS-300/1000/2000	Per Sq	$ 3.90	1.3	1.3	1.0	1.0	1.3	1.0	$ 2.54	Per Sq
Maintenance Track Surfaces										
Plexitrac Lighting Resurface (black SBR	Per Sq	$ 16.25	1.0	1.2	1.0	1.0	1.2	1.0	$ 10.56	Per Sq
Plexitrac Accelerator Resurface (red EPDM	Per Sq	$ 25.50	1.1	1.2	1.0	1.0	1.2	1.0	$ 16.58	Per Sq
BSS-100/200 top (structural sprays)	Per Sq	$ 24.98	1.1	1.2	1.0	1.0	1.2	1.0	$ 16.24	Per Sq
5mm BSS-300/1000/2000 Top (FP resurface)	Per Sq	$ 54.75	1.1	1.1	1.0	1.0	1.2	1.0	$ 35.59	Per Sq
Service Labor Rates All Lots										
Project Design, Development or Consultant	Per Hour	$ 200.00	1.0	1.0	1.0	1.0	1.0	1.0	N/A	Per Hour
Professional Engineering Services	Per Hour	$ 200.00	1.0	1.0	1.0	1.0	1.0	1.0	N/A	Per Hour
Installer (Tradesman)	Per Hour	$ 48.10	1.7	1.7	1.0	1.0	1.7	1.0	N/A	Per Hour
Paving (Not to Exceed Pricing)	Per Ton	$ 217.50	1.0	1.0	1.0	1.0	1.0	1.0	N/A	Per Ton

Notes:

Note #1: Volume discounts available for multiple surfacing or construction projects on a case by case basis.

Note #2. All Coop agency Administrative fees have been accounted for. Therefore, Base price times mutliplier equals cost to customer.

Note #3: SiteWork - RS Means or Alternative Costing Method. In the past, we have found that customers receive the least expensive price to use a discounted RS Means or Alternative Costing Method to price these types of line items, as costs vary on each project due to economies of scale.

Note #4: One multiplier number has been used that accounts for the best, lowest price opportunity that considers non-prevailing wages, use taxes, prevailing wages, mobilization Davis Bacon, and delivery.

Note #5: Prevailing wage variance within the six New England states is dramatic and may depend on project cost thresholds.

NCPA RFP# 25-13

NCPA Pricing for Warranties, Additional Services or Incidentals

Copies of product warranties have been provided under Tab 7 of the Solicitation Response.

Standard Warranty applies to products indicated. There are no additional purchases required to validate the product warranty.

2013 -14 NCPA 2% Admin Fee Tennis Surfacing

Description of Cost Factors	Unit of Measure	Offeror's Base Bid
Performance and payment bond - bonding rate (percent of project)	Percent	1%
Bonding capacity - total amount of capacity available	Dollar Amount	$10,000,000.00
NCPA Discounts offered on individual manufacturer's published price lists/catalogs	Percent	5%
Alternative methods of costing - percent of overhead/markup to cost	Percent	20%
Discounts offered of alternative costing methods (cost + profit & overhead) Rate of discount.	Percent	5%
R.S. Means Multiplier/Factor - Normal Hours	Percent	3%
R.S. Means Multiplier/Factor - Out Side of Normal Hours	Percent	3%
Offeror's Support for NCPA Pricing, Percent off the Offeror's Support for NCPA pricing Page	Percent	5%

New Construction - NOTE: Below are prices for the court and surfaces only. CIT&T is prepared to offer turn key solutions for the construction of tennis courts through the use of Alternative Costing and RS Means. Past experience with Cooperative Purchasing turn key projects confirms our position that the best value pricing for customers is obtained through these costing methods.

1	2	3	4	5	6	7	9	10

Selected individual products for cost evaluation

Tennis and Basketball Surfacing	Unit of Measure	CIT&T Base Bid	CTState Mult	MA State Mult	ME State Mult	NH State Mult	RI State Mult	VT State Mult	Material Only (not to exceed)	Unit of Measure
Plexipave System	Per Sq Yard	$ 26.53	1.30	1.30	1.00	1.00	1.30	1.00	9.00	Per Sq Yard
Additional Coats of Plexipave	Per Sq Yard	$ 6.50	1.34	1.34	1.00	1.00	1.34	1.00	3.90	Per Sq Yard
Tennis and Basketball Court Construction										
Asphalt Court Construction	Per Sq Yard	$ 103.00	1.10	1.10	1.00	1.00	1.10	1.00	72.00	Per Sq Yard
Post Tensioned Concrete Court Installation	Per Sq Yard	$ 207.71	1.17	1.17	1.00	1.00	1.17	1.00	95.67	Per Sq Yard
Service Labor Rates All Lots										
Project Design, Development or Consultant	Per Hour	$ 265.00	1.0	1.0	1.0	1.0	1.0	1.0	N/A	Per Hour
Professional Engineering Services	Per Hour	$ 265.00	1.0	1.0	1.0	1.0	1.0	1.0	N/A	Per Hour
Installer (Tradesman)	Per Hour	$ 78.78	1.7	1.7	1.0	1.0	1.7	1.0	N/A	Per Hour
Paving (Not to Exceed Pricing)	Per Ton	$ 305.00	1.0	1.0	1.0	1.0	1.0	1.0	N/A	Per Ton

Notes:

Note #1: Volume discounts available for multiple surfacing or construction projects on a case by case basis.

Note #2. All Coop agency Administrative fees have been accounted for. Therefore, Base price times mutliplier equals cost to customer.

Note #3: SiteWork --- RS Means or Alternative Costing Method. In the past, we have found that customers receive the least expensive price to use a discounted RS Means or Alternative Costing Method to price these types of line items, as costs vary on each project due to economies of scale.

Note #4 One multiplier number has been used that accounts for the best, lowest price opportunity that considers non---prevailing wages, use taxes, prevailing wages, mobilization Davis Bacon, and delivery.

Note #5: Prevailing wage variance within the six New England states is dramatic and may depend on project cost thresholds. Note #6 Paving is charged per ton and is provided as a not to exceed price.

TAB 8
VALUE ADDED PRODUCTS AND SERVICES

Include any additional products and/or services available that vendor currently performs in their normal course of business that is not included in the scope of the solicitation that you think will enhance and add value to this contract for Region 14 ESC and all NCPA participating entities.

CTB
CERTIFIED TRACK BUILDER
ASBA

AMERICAN SPORTS BUILDERS ASSOCIATION

Through Its Certification Board
Has Conferred Upon

Kristoff Eldridge

The Designation

CERTIFIED TRACK BUILDER

AMERICAN SPORTS BUILDERS ASSOCIATION
CORPORATE SEAL
1965
DELAWARE

FOR EFFORTS TO RAISE THE PROFESSIONAL STANDARDS OF RUNNING TRACK CONSTRUCTION AND FOR HAVING SUCCESSFULLY FULFILLED THE CONDIDTIONS OF ELIGIBILITY AND PASSED THE REQUIRED EXAMINATION

In witness whereof we have set our hands on

this 31st *day of* December, 2021

Certification expires: December 31, 2024

Executive Director

Certification Chairman

BEYNON®

A Tarkett Sports Company

CERTIFIED INSTALLER

This document certifies and acknowledges that as of June 01, 2013

Cape and Island Tennis & Track

is certified as an installer of **Beynon Sports Surfacing Systems** and has been trained on overall safety and material handling associated Beynon materials.

Drew Beynon
Chief Operating Officer
Beynon Sports Surfacing

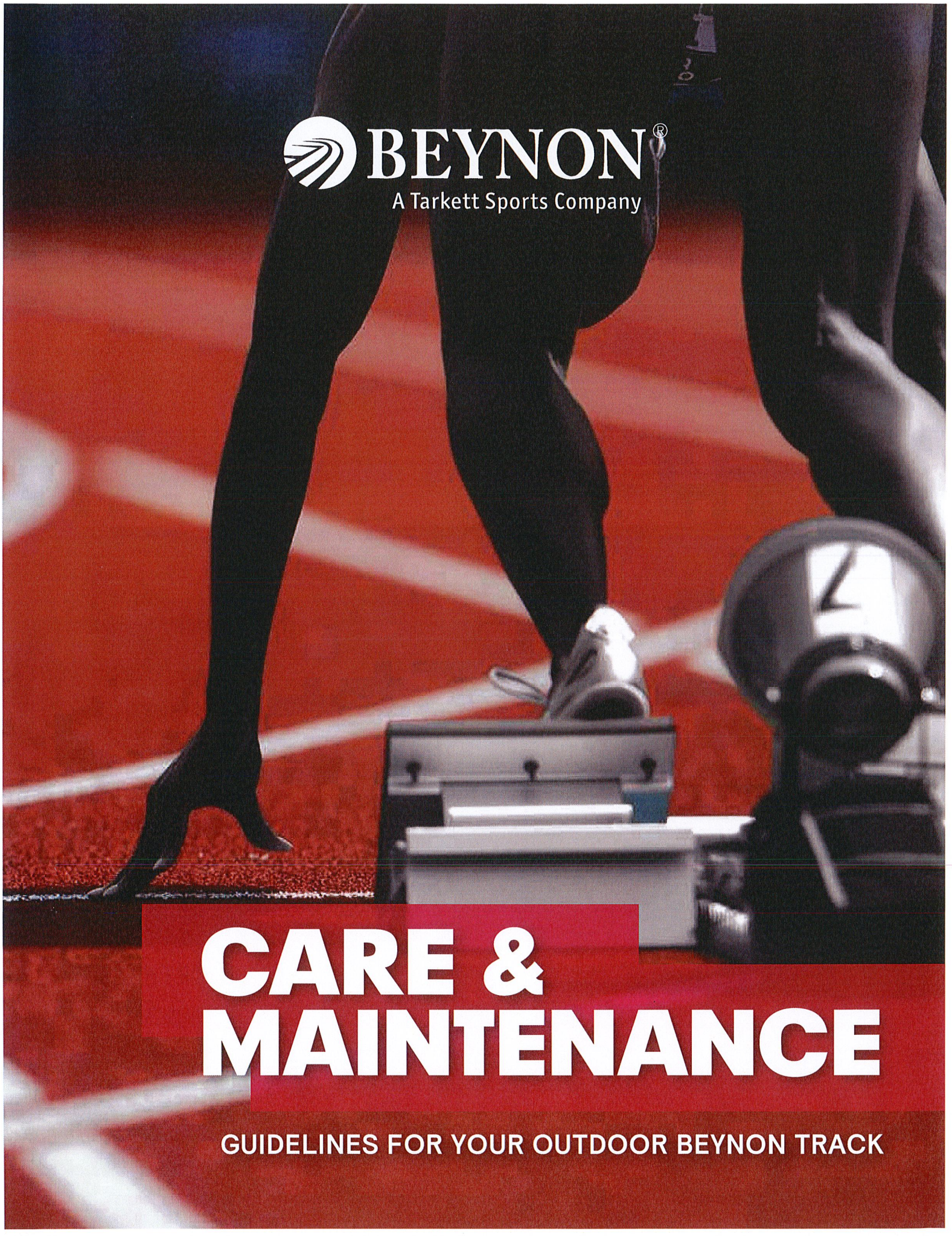
Authorized Applicator

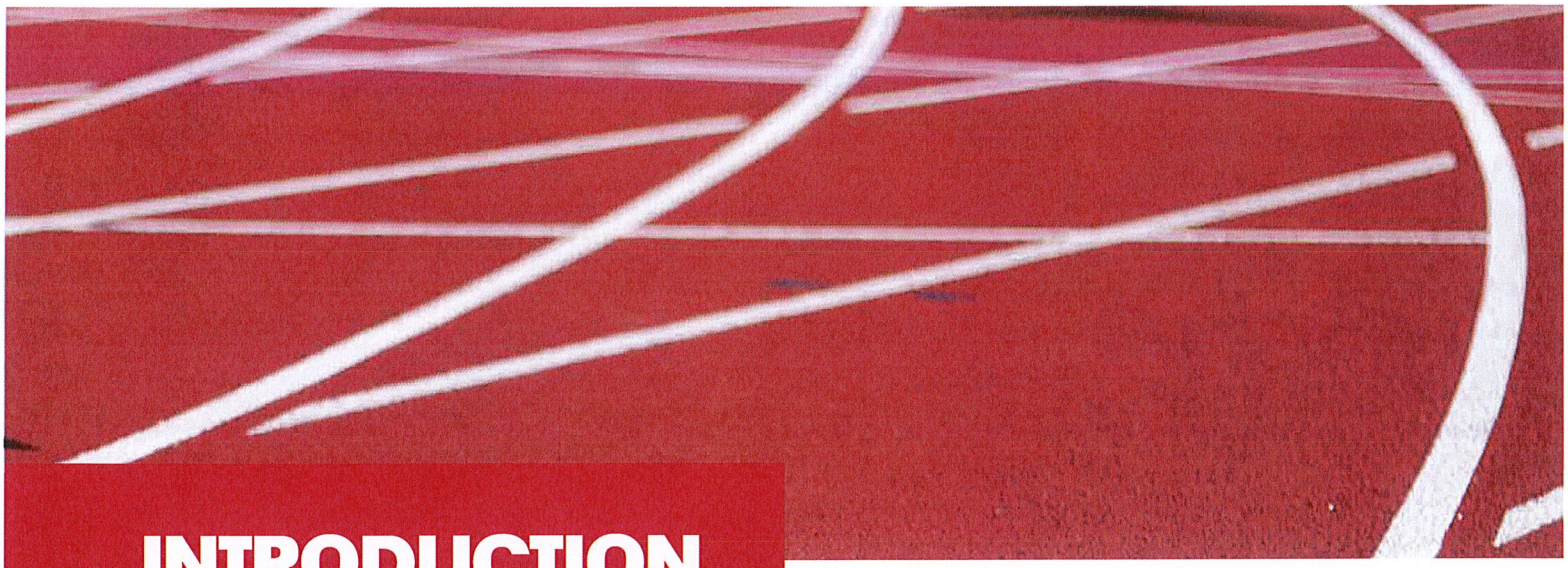
PLEXITRAC® SYSTEM

Cape & Island Tennis and Track

This is to confirm that the above name company is an Authorized Applicator of the Plexitrac® System. The Plexitrac System is the world's largest manufacturer of acrylic sport surfaces. A select group of applicators have demonstrated the capability and the techniques to successfully install the Plexitrac System. California Products Corporation supports their efforts with technical service and marketing assistance. This authorization is reviewed annually to insure continued compliance with our standards. We are pleased to have this firm as a part of our network.

Arthur F. Tucker
Vice President
California Product Corporation


BEYNON®
A Tarkett Sports Company
CARE &
MAINTENANCE
GUIDELINES FOR YOUR OUTDOOR BEYNON TRACK



INTRODUCTION

To get the most out of your outdoor Beynon track surface, it is essential that you routinely inspect the surface and address any regular maintenance in a timely fashion. Regular maintenance of your Beynon Sports' track will keep your surface looking great while minimizing lifecycle costs.

BASIC BEYNON SPORTS' TRACK SURFACE MAINTENANCE GUIDELINES:

- Keep the track clear of trash and debris
- Perform regular surface cleaning & sweeping as needed
- Never drive or park anything heavy on the track surface without proper precautions
- Only use the track for walking, running, or track and field competitions and training

In this guide you will find answers to common questions along with recommendations to maximize the life and appearance of your Beynon Sports' track.

If you have any questions not addressed in these guidelines, please call us anytime.

BEYNON SPORTS
16 Alt Road
Hunt Valley, MD 21031
beynonsports.com
888-240-3670
info@beynonsports.com

RUNNING SHOE PYRAMID SPIKES ON THE TRACK SURFACE

RECOMMENDATION: ONLY PYRAMID SPIKES SHOULD BE USED ON THE TRACK SURFACE

Beynon Sports allows only pyramid spikes with sizes not to exceed the following:

- 7MM for the running oval
- 9MM for the throws or jump area or D area

Why do we recommend this? Pyramid spikes compress the surface, rather than dig into it like a metal spike. When the runner pushes off the track surface to accelerate, especially for sprinting events, pyramid spikes cause less damage to the track surface due to the profile and widened point load distribution.

WHAT TO LOOK FOR:

During inspections, pay close attention to the start locations. These areas endure heavy usage and may require limited repairs before a full track resurfacing. Reduce the wear in these areas by rotating training activities to different locations on the track surface during the season.

PROTECTING THE INSIDE LANES OF YOUR BEYNON TRACK

Due to constant usage, the inside three lanes of the track tend to wear faster than the remaining lanes. Beynon recommends to restrict access or rotate traffic during training sessions.

Access can be restricted by using lockable barriers or by using temporary measures such as bollards, traffic cones, or other movable barriers.

If you see a pattern of wear occurring, please contact us, and we can inspect and make recommendations.

DO NOT PAINT ANYTHING ON THE TRACK YOURSELF

PLEASE CONTACT US IF YOU NEED EVENT MARKINGS

If you require additional markings, paint, or logos for your track surface, reach out to Beynon for advice from our experts. An incorrect application of unsuitable paint could result in permanent damage.

VEHICLES ON THE TRACK SURFACE – IMPORTANT

Vehicles should be kept off the track surface whenever possible.

Only allow traffic when necessary: maintenance, access, event management, etc.

The following will permanently damage your track surface:

- Oil or fuel spills on the surface
- Sudden starting or twisting of wheels under any load
- Excess traffic loading, i.e., using a vehicle on the track surface that weighs too much

OIL OR FUEL SPILLS

Before any vehicle crosses the track, verify that oil, fuel, or other fluids are not leaking from the vehicle.

If a leak of any kind is found, wash the area immediately with a neutral pH, non- foaming detergent, and rinse thoroughly with cold water.

VEHICLE RULES THAT MUST BE FOLLOWED:

- **Never** turn vehicle tires directly on the track surface.
- Only use vehicles with **inflatable** tires, and the total weight of the loaded vehicle must NOT exceed four (4) tons.
- Place multiple (2x) layers of ¾" plywood on the track surface to spread the load and eliminate point loading.
- The drains around the track surface can be easily damaged. Do not drive over them under any circumstance.
- Determine one (1) access point and path before crossing the track edge and only cross at this point.
- Avoid heavy traffic on your track in hot weather (above 86°F) as the asphalt under the track surface may compress with heavy loads.

ROUTINE INSPECTIONS

Regularly inspect your track surface, and if you have questions, **please give us a call at any time.**

During inspections, review these areas closely (if applicable):

- The boundary between the track surface and the grass field – look for damage here.
- Near shaded, tree-covered areas – look for where algae or moss may form around fallen leaves on the track.
- Underneath the aluminum rail – ensure this area is clear of dirt and debris.

CLEAN & SWEEP YOUR SURFACE

Regularly sweep/vacuum any trash, grass cuttings, leaves, and sand off the track surface. Cleaning to remove grass clippings and vegetation is critical to prevent the buildup of organic material on the track surface. If left unattended, organic material could stain the track surface. Cleaning can be done by hand or with a leaf blower. If specialized equipment is necessary for a more through cleaning, contact Beynon Sports for information.

EPDM MIGRATION

If your track has an Embedded texture, it is built with EPDM granules embedded in the surface. Through regular usage, some EPDM granules will shed from the surface – this is a regular feature of the Embedded track systems and does not indicate a problem. Loose EPDM granules should be periodically removed from the track surface to prevent collection under the aluminum track curbing, which could obstruct the drainage of the track.

DRAINAGE AREAS

Drainage channels, grates, and the slotted drainage openings around the D-sections must be kept clean and free of obstruction to maximize drainage flow.

MANAGING A RAISED CURB

In compliance with World Athletics requirements, there may be a raised aluminum curb or running rail installed on the inner edge of your track. This rail is segmented and designed to be removable as part of regular athletics competition and maintenance purposes (i.e., track cleaning or vehicular access). Never drive on the aluminum rail.

MANAGING SAND AND WEEDS

If you find sand on the track surface (near the long and triple jump pits), please sweep and clean these areas regularly. Remove weeds, and trim grass at the track edge with caution. Ensure that surrounding areas allow for stormwater runoff, and water flow is not restricted by raised surfaces adjacent to the track.

Remove weeds using a diluted vinegar and water solution only. Other natural-based weed killers have been tested and confirmed acceptable; however, prior approval by Beynon Sports is required before using any specific product to ensure compatibility.

CLEANING YOUR BEYNON TRACK

Beynon Sports recommends that your track be pressure-washed every two (2) years and after any event that may cause dirt buildup on the track surface. Pressure washing is to be carried out with a rotary pressure cleaning head and a medium pressure wand. This technique will maximize the cleanliness of your Beynon track surface. Please contact Beynon Sports anytime with questions or concerns.

The aluminum rail should be cleaned occasionally with liquid detergent and a damp cloth.

REPAIRS ON YOUR BEYNON TRACK - IMPORTANT

If your Beynon track is damaged or you notice any areas of concern, please contact us for an immediate inspection.

ALL REPAIR WORK MUST BE DONE BY OUR QUALIFIED TECHNICIANS USING BEYNON SPORTS' MATERIALS TO ENSURE A CHEMICAL BOND BETWEEN THE REPAIR AND ORIGINAL TRACK SURFACE.

REPAIR WORK DIRECTLY AFFECTS THE LONGEVITY OF THE BEYNON SPORTS SURFACE. DO NOT LET UNTRAINED PERSONNEL UNDERTAKE THIS TASK.

REMOVING SNOW ON YOUR BEYNON TRACK

Beynon Sports' Track & Field systems are designed to withstand the elements and conditions of all four seasons. When preparing for winter and spring, more care must be taken to keep your track looking and performing at its best.

SNOW REMOVAL & DRAINAGE PATH

Periodic snow removal from the track surface is necessary, and there are many precautions you must take into consideration. The best way to safely remove the snow from the surface is to attach a piece of PVC pipe to the end of a plastic-tipped snow shovel. Gently push the snow off the track surface, careful not to allow any sharp edges of the shovel to dig into the track surface. Once complete, walking or running on the track will help accelerate melting the remaining snow. While walking on the track, it is vital to allow a drainage path for the melted snow to follow towards the infield of the track.

AVOID MACHINERY

The use of mechanical devices such as a plow or snow blower on the track surface is not recommended. A snowplow has the potential to tear or rub the surface, and the twisting or torque pressure from the tires may cause the synthetic surface asphalt bond to tear and breakaway. This may result in a bubble or loosened delaminated areas. A snowblower, if not careful, can cut the edge of the track surface. With an impermeable track system, any tears or rips in the surface will allow moisture penetration and may prematurely accelerate the wearing of the surface.

SPIKES IN WINTER MONTHS

When training in freezing temperatures, it is essential to use rubber-soled shoes without spikes, once the track is clear of snow. In extreme cold temperatures, the use of metal spikes may cause excessive wear on some types of track surfaces.

USAGE REQUIREMENTS SIGNAGE

Beynon Sports recommends installing specific signage at key access points to the athletic track facility that outlines the facility usage requirements.

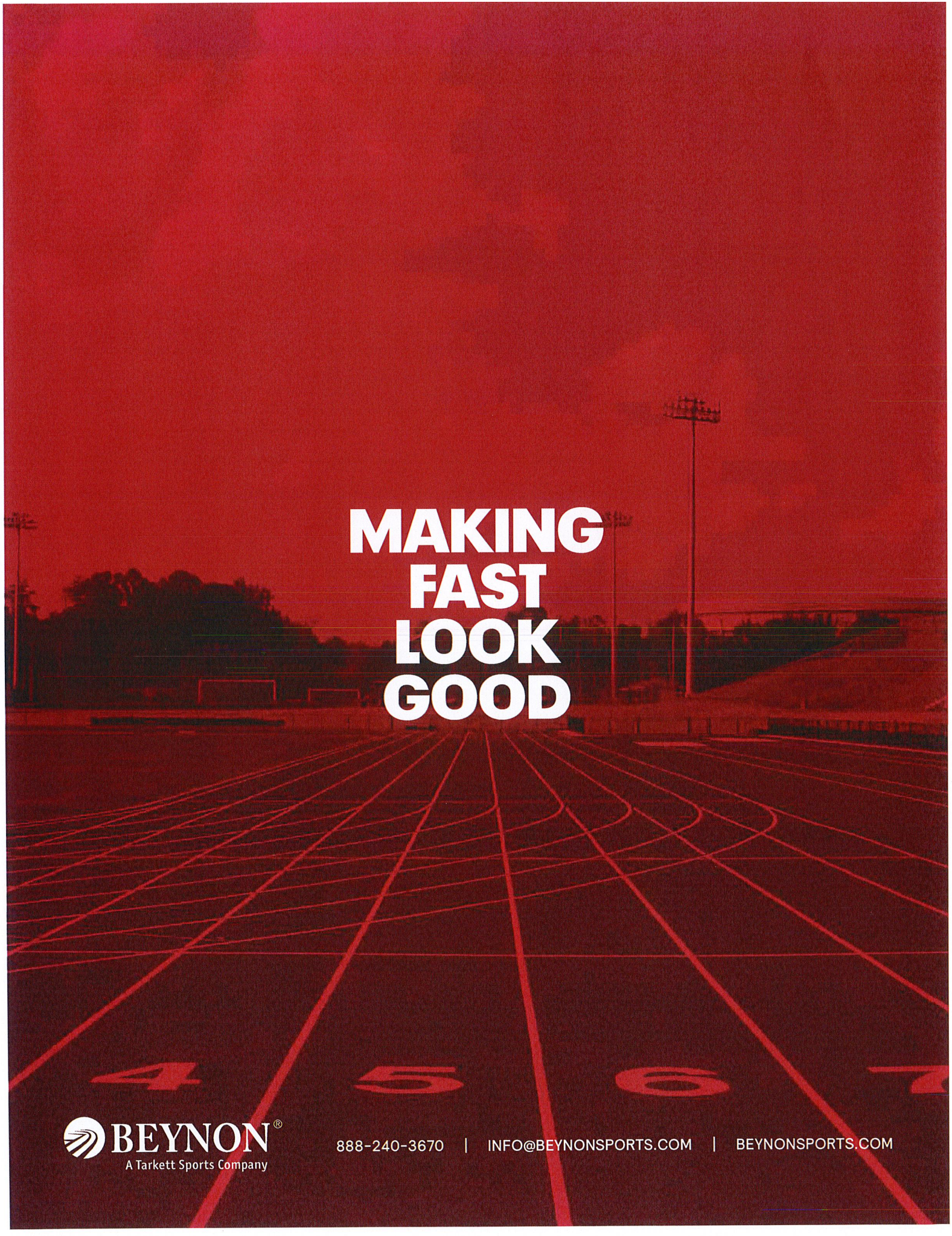
Beynon Sports can provide "Track Rules" signage upon request.

Order signs by contacting our service team at 888-240-3670.

THESE WILL OUTLINE THE BASIC RULES OF THE TRACK USAGE, INCLUDING:

- NO FOOD OR DRINK
- NO SMOKING
- NO GLASS OR SHARP OBJECTS
- NO SPITTING
- NO CHEWING GUM
- ALLOWABLE SPIKE TYPE & PERMITTED SPIKE LENGTH

THANK YOU FOR YOUR TRUST.
OUR TEAM IS HERE TO HELP IF YOU NEED US.
WELCOME TO THE BEYNON SPORTS FAMILY.


MAKING
FAST
LOOK
GOOD
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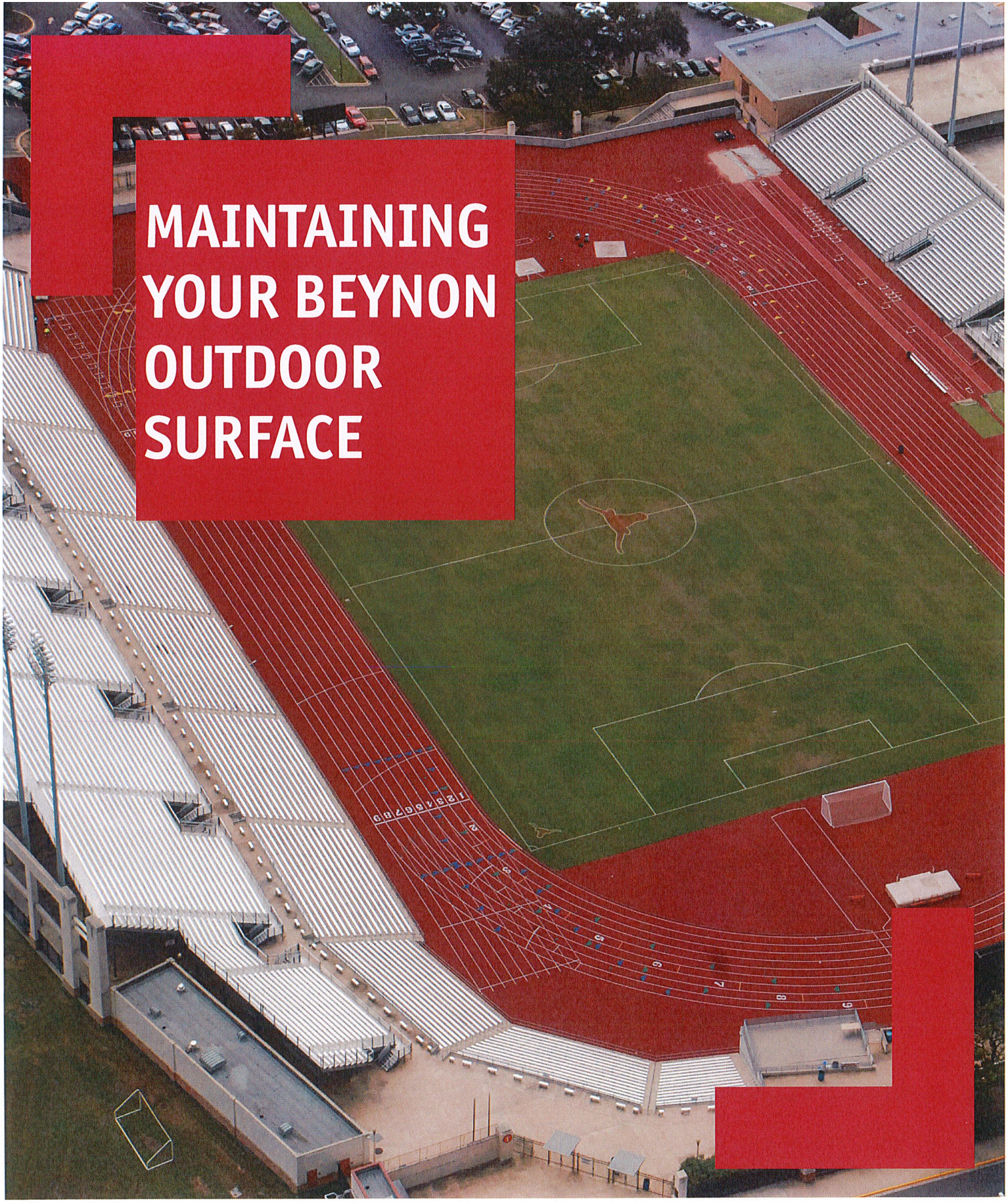
A Tarkett Sports Company
888-240-3670 | INFO@BEYNONSPORTS.COM | BEYNONSPORTS.COM



MAINTAINING YOUR BEYNON OUTDOOR SURFACE

BEYNON®
A Tarkett Sports Company

THE ULTIMATE
SURFACE EXPERIENCE

Care and Maintenance For Outdoor Products

The following are specific guidelines that must be followed to maximize the life of your new state-of-the-art Beynon Sports Surfaces' Outdoor Track and Field Surface. Failure to adhere to these standard use procedures will decrease the lifecycle of your surface and potentially void the warranty associated with the product.

1. Limit vehicular traffic to only light-weight maintenance equipment and mowers. Mower operators must elevate mowers to maximum height and all equipment should cross areas on plywood protected paths. If you have any questions please contact Beynon Sports Surfaces.

2. If other vehicles must use the track, the following standard operating procedures must be adhered to:
   - Avoid standing still and operating power steering.
   - Avoid gasoline and oil spillage, and dripping from all motorized equipment and vehicles.
   - Check all vehicles for leaking fluids prior to entering the track.
   - Wipe up all spills immediately. Clean spills and/or stains with an approved neutral cleaner.
   - Avoid jackrabbit starts.
   - Avoid slamming of brakes.

Limit vehicular traffic to only light-weight maintenance equipment and mowers

3. For team crossing areas or areas of heavy foot traffic:
   - Utilize crossing mats (Indoor-Outdoor Carpet, Rubber Belting, Artificial Grass, etc.).
   - Each of the above is preferable to plywood.
   - Running shoes with spikes are allowed – spike shoe wear is limited to 1/8"pin or pyramid spikes.

4. Apply a six (6) inch spray of water base vegetation killer (Round-Up™) adjacent to all edges of the track surface where grass abuts on the following schedule:
   - Once monthly during growing season.
   - Every 60 days during dormant periods.
   - Care should be taken to ensure that no chemicals or fertilizers come in contact with the track surface. Rinse immediately with water if this does happen.

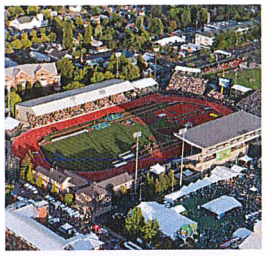
5. If ant infestation becomes apparent, and this typically appears at the edges, curbing, and/or in existing cracks, we suggest that a powder application of Orthene (by Ortho) be immediately applied. A comparable type of insecticide may be as effective. Always follow the written manufacturer's directions.

6. Use weed eaters with extreme caution; do not allow the cutting line to contact the track and field surface.

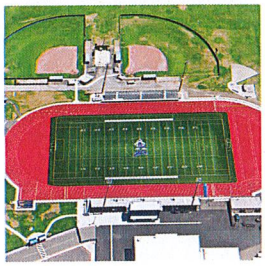
7. If one needs to clean the track and field surface area, do not broom sweep, instead follow the guidelines below:
   - Use a water nozzle and hose.
   - Use a blower.

8. Do not use the new track and field surface area for storage of irrigation equipment and pipes, or hurdles, high jump or pole vault standards.

Care and Maintenance For Outdoor Products



Do not exceed 1,200 PSI when washing with a pressure washer



9. Lift and carry equipment for placement on the track and field surface. Never drag over the track surface.

10. Try to provide even wear on each lane by alternating lanes for daily practice (starts, hurdles, distance work, etc.). Keep an alert eye out for individuals intentionally damaging the surface with spikes, vandalism, etc.

11. On extremely hot days, care must be taken with all objects and equipment that are placed on the track with heavy point loads that could cause a depression in the asphalt sub-base.

12. Once a year or as necessary, the track surface should be washed with a pressure washer. Spot clean any stains with an approved neutral cleaner. Recommended pressure of 800 - 1,200 PSI. Do not exceed 1,200 PSI when washing and do not hold the wand any closer than 12". Beynon Sports Surfaces, Inc. must be consulted before the initial cleaning.

13. Posted signs can be helpful such as those that designate the following:
    - No wheeled vehicles or pets allowed on track.
    - Joggers – Please use outside 3 lanes only.

14. Water used for irrigation that could come in contact with the track surface should be filtered or potable water to protect against potential iron stains.

These suggestions will aid you in extending the life of your track and its appearance. Your track is tough and can withstand hard use; but please, always exercise common sense and your best judgement.

If you have any questions, please contact Beynon Sports Surfaces at 1-888-240-3670.

CARE AND MAINTENANCE

FOR OUTDOOR PRODUCTS

Information
Beynon Sports Surfaces
16 Alt Road Hunt Valley, Maryland 21030
(410) 771-9473 | www.beynonsports.com

BEYNON®
A Tarkett Sports Company

THE ULTIMATE
SURFACE EXPERIENCE

TAB 9
REQUIRED DOCUMENTS

- Federal Funds Certifications
- Clean Air and Water Act & Debarment Notice
- Contractors Requirements
- Required Clauses for Federal Assistance by FTA
- Federal Required Signatures
- Antitrust Certification Statements Texas Government Code § 2155.005
- State Notice Addendum

FEDERAL FUNDS CERTIFICATIONS

Participating Agencies may elect to use federal funds to purchase under the Master Agreement. The following certifications and provisions may be required and apply when a Participating Agency expends federal funds for any purchase resulting from this procurement process. Pursuant to 2 C.F.R. § 200.326, all contracts, including small purchases, awarded by the Participating Agency and the Participating Agency's subcontractors shall contain the procurement provisions of Appendix II to Part 200, as applicable.

APPENDIX II TO 2 CFR PART 200

(A) Contracts for more than the simplified acquisition threshold currently set at $250,000, which is the inflation adjusted amount determined by the Civilian Agency Acquisition Council and the Defense Acquisition Regulations Council (Councils) as authorized by 41 U.S.C. 1908, must address administrative, contractual, or legal remedies in instances where contractors violate or breach contract terms, and provide for such sanctions and penalties as appropriate.

- Pursuant to Federal Rule (A) above, when a Participating Agency expends federal funds, the Participating Agency and Offeror reserves all rights and privileges under the applicable laws and regulations with respect to this procurement in the event of breach of contract by either party.

(B) Termination for cause and for convenience by the grantee or subgrantee including the manner by which it will be effected and the basis for settlement. (All contracts in excess of $10,000)

- Pursuant to Federal Rule (B) above, when a Participating Agency expends federal funds, the Participating Agency reserves the right to terminate any agreement in excess of $10,000 resulting from this procurement process in the event of a breach or default of the agreement by Offeror as detailed in the terms of the contract

(C) Equal Employment Opportunity. Except as otherwise provided under 41 CFR Part 60, all contracts that meet the definition of "federally assisted construction contract" in 41 CFR Part 60-1.3 must include the equal opportunity clause provided under 41 CFR 60-1.4(b), in accordance with Executive Order 11246, "Equal Employment Opportunity" (30 CFR 12319, 12935, 3 CFR Part, 1964-1965 Comp., p. 339), as amended by Executive Order 11375, "Amending Executive Order 11246 Relating to Equal Employment Opportunity," and implementing regulations at 41 CFR part 60, "Office of Federal Contract Compliance Programs, Equal Employment Opportunity, Department of Labor."

- Pursuant to Federal Rule (C) above, when a Participating Agency expends federal funds on any federally assisted construction contract, the equal opportunity clause is incorporated by reference herein.

(D) Davis-Bacon Act, as amended (40 U.S.C. 3141-3148). When required by Federal program legislation, all prime construction contracts in excess of $2,000 awarded by non-Federal entities must include a provision for compliance with the Davis-Bacon Act (40 U.S.C. 3141-3144, and 3146-3148) as supplemented by Department of Labor regulations (29 CFR Part 5, "Labor Standards Provisions Applicable to Contracts Covering Federally Financed and Assisted Construction"). In accordance with the statute, contractors must be required to pay wages to laborers and mechanics at a rate not less than the prevailing wages specified in a wage determination made by the Secretary of Labor. In addition, contractors must be required to pay

wages not less than once a week. The non-Federal entity must place a copy of the current prevailing wage determination issued by the Department of Labor in each solicitation. The decision to award a contract or subcontract must be conditioned upon the acceptance of the wage determination. The non- Federal entity must report all suspected or reported violations to the Federal awarding agency. The contracts must also include a provision for compliance with the Copeland "Anti-Kickback" Act (40 U.S.C. 3145), as supplemented by Department of Labor regulations (29 CFR Part 3, "Contractors and Subcontractors on Public Building or Public Work Financed in Whole or in Part by Loans or Grants from the United States"). The Act provides that each contractor or subrecipient must be prohibited from inducing, by any means, any person employed in the construction, completion, or repair of public work, to give up any part of the compensation to which he or she is otherwise entitled. The non-Federal entity must report all suspected or reported violations to the Federal awarding agency.

- Pursuant to Federal Rule (D) above, when a Participating Agency expends federal funds during the term of an award for all contracts and subgrants for construction or repair, offeror will be in compliance with all applicable Davis-Bacon Act provisions
- Any Participating Agency will include any current and applicable prevailing wage determination in each issued solicitation and provide Offeror with any required documentation and/or forms that must be completed by Offeror to remain in compliance the applicable Davis-Bacon Act provisions.

(E) Contract Work Hours and Safety Standards Act (40 U.S.C. 3701-3708). Where applicable, all contracts awarded by the non-Federal entity in excess of $100,000 that involve the employment of mechanics or laborers must include a provision for compliance with 40 U.S.C. 3702 and 3704, as supplemented by Department of Labor regulations (29 CFR Part 5). Under 40 U.S.C. 3702 of the Act, each contractor must be required to compute the wages of every mechanic and laborer on the basis of a standard work week of 40 hours. Work in excess of the standard work week is permissible provided that the worker is compensated at a rate of not less than one and a half times the basic rate of pay for all hours worked in excess of 40 hours in the work week. The requirements of 40 U.S.C. 3704 are applicable to construction work and provide that no laborer or mechanic must be required to work in surroundings or under working conditions which are unsanitary, hazardous or dangerous. These requirements do not apply to the purchases of supplies or materials or articles ordinarily available on the open market, or contracts for transportation or transmission of intelligence.

- Pursuant to Federal Rule (E) above, when a Participating Agency expends federal funds, offeror certifies that offeror will be in compliance with all applicable provisions of the Contract Work Hours and Safety Standards Act during the term of an award for all contracts by Participating Agency resulting from this procurement process.

(F) Rights to Inventions Made Under a Contract or Agreement. If the Federal award meets the definition of "funding agreement" under 37 CFR §401.2 (a) and the recipient or subrecipient wishes to enter into a contract with a small business firm or nonprofit organization regarding the substitution of parties, assignment or performance of experimental, developmental, or research work under that "funding agreement," the recipient or subrecipient must comply with the requirements of 37 CFR Part 401, "Rights to Inventions Made by Nonprofit Organizations and Small Business Firms Under Government Grants, Contracts and Cooperative Agreements," and any implementing regulations issued by the awarding agency.

- Pursuant to Federal Rule (F) above, when federal funds are expended by Participating Agency, the offeror certifies that during the term of an award for all contracts by Participating Agency resulting from this procurement process, the offeror agrees to comply with all applicable requirements as referenced in Federal Rule (F) above

(G) Clean Air Act (42 U.S.C. 7401-7671q.) and the Federal Water Pollution Control Act (33 U.S.C. 1251-1387), as amended— Contracts and subgrants of amounts in excess of $150,000 must contain a provision that requires the non- Federal award to agree to comply with all applicable standards, orders or regulations issued pursuant to the Clean Air Act (42 U.S.C. 7401- 7671q) and the Federal Water Pollution Control Act as amended (33 U.S.C. 1251- 1387). Violations must be reported to the Federal awarding agency and the Regional Office of the Environmental Protection Agency (EPA).

- Pursuant to Federal Rule (G) above, when federal funds are expended by Participating Agency, the offeror certifies that during the term of an award for all contracts by Participating Agency member resulting from this procurement process, the offeror agrees to comply with all applicable requirements as referenced in Federal Rule (G) above

(H) Debarment and Suspension (Executive Orders 12549 and 12689)—A contract award (see 2 CFR 180.220) must not be made to parties listed on the government wide exclusions in the System for Award Management (SAM), in accordance with the OMB guidelines at 2 CFR 180 that implement Executive Orders 12549 (3 CFR part 1986 Comp., p. 189) and 12689 (3 CFR part 1989 Comp., p. 235), "Debarment and Suspension." SAM Exclusions contains the names of parties debarred, suspended, or otherwise excluded by agencies, as well as parties declared ineligible under statutory or regulatory authority other than Executive Order 12549.

- Pursuant to Federal Rule (H) above, when federal funds are expended by Participating Agency, the offeror certifies that during the term of an award for all contracts by Participating Agency resulting from this procurement process, the offeror certifies that neither it nor its principals is presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participation by any federal department or agency. If at any time during the term of an award the offeror or its principals becomes debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participation by any federal department or agency, the offeror will notify the Participating Agency

(I) Byrd Anti-Lobbying Amendment (31 U.S.C. 1352)—Contractors that apply or bid for an award exceeding $100,000 must file the required certification. Each tier certifies to the tier above that it will not and has not used Federal appropriated funds to pay any person or organization for influencing or attempting to influence an officer or employee of any agency, a member of Congress, officer or employee of Congress, or an employee of a member of Congress in connection with obtaining any Federal contract, grant or any other award covered by 31 U.S.C. 1352. Each tier must also disclose any lobbying with non-Federal funds that takes place in connection with obtaining any Federal award. Such disclosures are forwarded from tier to tier up to the non-Federal award.

- Pursuant to Federal Rule (I) above, when federal funds are expended by Participating Agency, the offeror certifies that during the term and after the awarded term of an award for all contracts by Participating Agency resulting from this procurement process, the

offeror certifies that it is in compliance with all applicable provisions of the Byrd Anti-Lobbying Amendment (31 U.S.C. 1352). The undersigned further certifies that:

- No Federal appropriated funds have been paid or will be paid for on behalf of the undersigned, to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of congress, or an employee of a Member of Congress in connection with the awarding of a Federal contract, the making of a Federal grant, the making of a Federal loan, the entering into a cooperative agreement, and the extension, continuation, renewal, amendment, or modification of a Federal contract, grant, loan, or cooperative agreement.
- If any funds other than Federal appropriated funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of congress, or an employee of a Member of Congress in connection with this Federal grant or cooperative agreement, the undersigned shall complete and submit Standard Form-LLL, "Disclosure Form to Report Lobbying", in accordance with its instructions.
- The undersigned shall require that the language of this certification be included in the award documents for all covered sub-awards exceeding $100,000 in Federal funds at all appropriate tiers and all subrecipients shall certify and disclose accordingly.

RECORD RETENTION REQUIREMENTS FOR CONTRACTS INVOLVING FEDERAL FUNDS

When federal funds are expended by Participating Agency for any contract resulting from this procurement process, offeror certifies that it will comply with the record retention requirements detailed in 2 CFR § 200.334. The offeror further certifies that offeror will retain all records as required by 2 CFR § 200.334 for a period of three years after grantees or subgrantees submit final expenditure reports or quarterly or annual financial reports, as applicable, and all other pending matters are closed.

CERTIFICATION OF COMPLIANCE WITH THE ENERGY POLICY AND CONSERVATION ACT

When Participating Agency expends federal funds for any contract resulting from this procurement process, offeror certifies that it will comply with the mandatory standards and policies relating to energy efficiency which are contained in the state energy conservation plan issued in compliance with the Energy Policy and Conservation Act (42 U.S.C. 6321 et seq.; 49 C.F.R. Part 18).

CERTIFICATION OF COMPLIANCE WITH BUY AMERICA PROVISIONS

To the extent purchases are made with Federal Highway Administration, Federal Railroad Administration, or Federal Transit Administration funds, offeror certifies that its products comply with all applicable provisions of the Buy America Act and agrees to provide such certification or applicable waiver with respect to specific products to any Participating Agency upon request. Participating Agencies will clearly identify whether Buy America Provisions apply in any issued solicitation. Purchases made in accordance with the Buy America Act must still follow the applicable procurement rules calling for free and open competition.

CERTIFICATION OF ACCESS TO RECORDS

Offeror agrees that the Inspector General of the Agency or any of their duly authorized representatives shall have access to any non-financial documents, papers, or other records of offeror that are pertinent to offeror's discharge of its obligations under the Contract for the purpose of making audits, examinations, excerpts, and transcriptions. The right also includes timely and reasonable access to offeror's personnel for the purpose of interview and discussion relating to such documents. This right of access will last only as long as the records are retained.

CERTIFICATION OF APPLICABILITY TO SUBCONTRACTORS

Offeror agrees that all contracts it awards pursuant to the Contract shall be bound by the foregoing terms and conditions.

CLEAN AIR AND WATER ACT AND DEBARMENT NOTICE

By the signature below (Under Federal Required Signatures), I, the Vendor, am in compliance with all applicable standards, orders or regulations issued pursuant to the Clean Air Act of 1970, as Amended (42 U.S. C. 1857 (h), Section 508 of the Clean Water Act, as amended (33 U.S.C. 1368), Executive Order 117389 and Environmental Protection Agency Regulation, 40 CFR Part 15 as required under OMB Circular A-102, Attachment O, Paragraph 14 (1) regarding reporting violations to the grantor agency and to the United States Environment Protection Agency Assistant Administrator for the Enforcement.

I hereby further certify that my company has not been debarred, suspended or otherwise ineligible for participation in Federal Assistance programs under Executive Order 12549, "Debarment and Suspension", as described in the Federal Register and Rules and Regulations.

CONTRACTOR REQUIRMENTS

Contractor Certification
Contractor's Employment Eligibility
By entering the contract, Contractor warrants compliance with the Federal Immigration and Nationality Act (FINA), and all other federal and state immigration laws and regulations. The Contractor further warrants that it is in compliance with the various state statues of the states it is will operate this contract in.

Participating Government Entities including School Districts may request verification of compliance from any Contractor or subcontractor performing work under this Contract. These Entities reserve the right to confirm compliance in accordance with applicable laws.

Should the Participating Entities suspect or find that the Contractor or any of its subcontractors are not in compliance, they may pursue any and all remedies allowed by law, including, but not limited to: suspension of work, termination of the Contract for default, and suspension and/or debarment of the Contractor. All costs necessary to verify compliance are the responsibility of the Contractor.

The offeror complies and maintains compliance with the appropriate statutes which requires compliance with federal immigration laws by State employers, State contractors and State subcontractors in accordance with the E-Verify Employee Eligibility Verification Program.

Contractor shall comply with governing board policy of the NCPA Participating entities in which work is being performed.

Fingerprint & Background Checks
If required to provide services on school district property at least five (5) times during a month, contractor shall submit a full set of fingerprints to the school district if requested of each person or employee who may provide such service. Alternately, the school district may fingerprint those persons or employees. An exception to this requirement may be made as authorized in Governing Board policy. The district shall conduct a fingerprint check in accordance with the appropriate state and federal laws of all contractors, subcontractors or vendors and their employees for which fingerprints are submitted to the district. Contractor, subcontractors, vendors and their employees shall not provide services on school district properties until authorized by the District.

The offeror shall comply with fingerprinting requirements in accordance with appropriate statutes in the state in which the work is being performed unless otherwise exempted.

Contractor shall comply with governing board policy in the school district or Participating Entity in which work is being performed.

Business Operations in Sudan, Iran
In accordance with A.R.S. 35-391 and A.R.S. 35-393, the Contractor hereby certifies that the contractor does not have scrutinized business operations in Sudan and/or Iran.

REQUIRED CLAUSES FOR FEDERAL ASSISTANCE PROVIDED BY FTA

ACCESS TO RECORDS AND REPORTS

Contractor agrees to:

a) Maintain all non-financial books, records, accounts and reports required under this Contract for a period of not less than two (2) years after the date of termination or expiration of this Contract or any extensions thereof except in the event of litigation or settlement of claims arising from the performance of this Contract, in which case Contractor agrees to maintain same until the FTA Administrator, the U.S. DOT Office of the Inspector General, the Comptroller General, or any of their duly authorized representatives, have disposed of all such litigation, appeals, claims or exceptions related thereto.

b) Permit any of the foregoing parties to inspect all non-financial work, materials, and other data and records that pertain to the Project, and to audit the non-financial books, records, and accounts that pertain to the Project and to reproduce by any means whatsoever or to copy excerpts and transcriptions as reasonably needed for the purpose of audit and examination. The right of access detailed in this section continues only as long as the records are retained.

FTA does not require the inclusion of these requirements of Article 1.01 in subcontracts.

CIVIL RIGHTS / TITLE VI REQUIREMENTS

1) Non-discrimination. In accordance with Title VI of the Civil Rights Act of 1964, as amended, 42 U.S.C. § 2000d, Section 303 of the Age Discrimination Act of 1975, as amended, 42 U.S.C. § 6102, Section 202 of the Americans with Disabilities Act of 1990, as amended, 42 U.S.C. § 12132, and Federal Transit Law at 49 U.S.C. § 5332, Contractor or subcontractor agrees that it will not discriminate against any employee or applicant for employment because of race, color, creed, national origin, sex, marital status age, or disability. In addition, Contractor agrees to comply with applicable Federal implementing regulations and other applicable implementing requirements FTA may issue that are flowed to Contractor from Awarding Participating Agency.

2) Equal Employment Opportunity. The following Equal Employment Opportunity requirements apply to this Contract:

   a. Race, Color, Creed, National Origin, Sex. In accordance with Title VII of the Civil Rights Act, as amended, 42 U.S.C. § 2000e, and Federal Transit Law at 49 U.S.C. § 5332, the Contractor agrees to comply with all applicable Equal Employment Opportunity requirements of U.S. Dept. of Labor regulations, "Office of Federal Contract Compliance Programs, Equal Employment Opportunity, Department of Labor, 41 CFR, Parts 60 et seq., and with any applicable Federal statutes, executive orders, regulations, and Federal policies that may affect construction activities undertaken in the course of this Project. Contractor agrees

to take affirmative action to ensure that applicants are employed, and that employees are treated during employment, without regard to their race, color, creed, national origin, sex, marital status, or age. Such action shall include, but not be limited to, the following: employment, upgrading, demotion or transfer, recruitment or recruitment advertising, layoff or termination, rates of pay or other forms of compensation; and selection for training, including apprenticeship. In addition, Contractor agrees to comply with any implementing requirements FTA may issue that are flowed to Contractor from Awarding Participating Agency.

b. Age. In accordance with the Age Discrimination in Employment Act (ADEA) of 1967, as amended, 29 U.S.C. Sections 621 through 634, and Equal Employment Opportunity Commission (EEOC) implementing regulations, "Age Discrimination in Employment Act", 29 CFR Part 1625, prohibit employment discrimination by Contractor against individuals on the basis of age, including present and prospective employees. In addition, Contractor agrees to comply with any implementing requirements FTA may issue that are flowed to Contractor from Awarding Participating Agency.

c. Disabilities. In accordance with Section 102 of the Americans with Disabilities Act of 1990, as amended (ADA), 42 U.S.C. Sections 12101 *et seq.*, prohibits discrimination against qualified individuals with disabilities in programs, activities, and services, and imposes specific requirements on public and private entities. Contractor agrees that it will comply with the requirements of the Equal Employment Opportunity Commission (EEOC), "Regulations to Implement the Equal Employment Provisions of the Americans with Disabilities Act," 29 CFR, Part 1630, pertaining to employment of persons with disabilities and with their responsibilities under Titles I through V of the ADA in employment, public services, public accommodations, telecommunications, and other provisions.

d. Segregated Facilities. Contractor certifies that their company does not and will not maintain or provide for their employees any segregated facilities at any of their establishments, and that they do not and will not permit their employees to perform their services at any location under the Contractor's control where segregated facilities are maintained. As used in this certification the term "segregated facilities" means any waiting rooms, work areas, restrooms and washrooms, restaurants and other eating areas, parking lots, drinking fountains, recreation or entertainment areas, transportation, and housing facilities provided for employees which are segregated by explicit directive or are in fact segregated on the basis of race, color, religion or national origin because of habit, local custom, or otherwise. Contractor agrees that a breach of this certification will be a violation of this Civil Rights clause.

3) Solicitations for Subcontracts, Including Procurements of Materials and Equipment. In all solicitations, either by competitive bidding or negotiation, made by Contractor for work to be performed under a subcontract, including procurements of materials or leases of equipment, each potential subcontractor or supplier shall be notified by Contractor of Contractor's obligations under this Contract and the regulations relative to non-discrimination on the grounds of race, color, creed, sex, disability, age or national origin.

4) Sanctions of Non-Compliance. In the event of Contractor's non-compliance with the non-discrimination provisions of this Contract, Public Agency shall impose such Contract sanctions as it or the FTA may determine to be appropriate, including, but not limited to: 1) Withholding of payments to Contractor under the Contract until Contractor complies, and/or; 2) Cancellation, termination or suspension of the Contract, in whole or in part.

Contractor agrees to include the requirements of this clause in each subcontract financed in whole or in part with Federal assistance provided by FTA, modified only if necessary to identify the affected parties.

DISADVANTAGED BUSINESS PARTICIPATION

This Contract is subject to the requirements of Title 49, Code of Federal Regulations, Part 26, "*Participation by Disadvantaged Business Enterprises in Department of Transportation Financial Assistance Programs*", therefore, it is the policy of the Department of Transportation (DOT) to ensure that Disadvantaged Business Enterprises (DBEs), as defined in 49 CFR Part 26, have an equal opportunity to receive and participate in the performance of DOT-assisted contracts.

1) Non-Discrimination Assurances. Contractor or subcontractor shall not discriminate on the basis of race, color, national origin, or sex in the performance of this Contract. Contractor shall carry out all applicable requirements of 49 CFR Part 26 in the award and administration of DOT-assisted contracts. Failure by Contractor to carry out these requirements is a material breach of this Contract, which may result in the termination of this Contract or other such remedy as public agency deems appropriate. Each subcontract Contractor signs with a subcontractor must include the assurance in this paragraph. (See 49 CFR 26.13(b)).

2) Prompt Payment. Contractor is required to pay each subcontractor performing Work under this prime Contract for satisfactory performance of that work no later than thirty (30) days after Contractor's receipt of payment for that Work from public agency. In addition, Contractor is required to return any retainage payments to those subcontractors within thirty (30) days after the subcontractor's work related to this Contract is satisfactorily completed and any liens have been secured. Any delay or postponement of payment from the above time frames may occur only for good cause following written approval of public agency. This clause applies to both DBE and non-DBE subcontractors. Contractor must promptly notify public agency whenever a DBE subcontractor performing Work related to this Contract is terminated or fails to complete its Work, and must make good faith efforts to engage another DBE subcontractor to perform at least the same amount of work. Contractor may not terminate any DBE subcontractor and perform that Work through its own forces, or those of an affiliate, without prior written consent of public agency.

3) DBE Program. In connection with the performance of this Contract, Contractor will cooperate with public agency in meeting its commitments and goals to ensure that DBEs shall have the maximum practicable opportunity to compete for subcontract work, regardless of whether a contract goal is set for this Contract. Contractor agrees to use good faith efforts to carry out a policy in the award of its subcontracts, agent agreements, and procurement contracts which will, to the fullest extent, utilize DBEs consistent with the efficient performance of the Contract.

ENERGY CONSERVATION REQUIREMENTS

Contractor agrees to comply with mandatory standards and policies relating to energy efficiency which are contained in the State energy conservation plans issued under the Energy Policy and Conservation Act, as amended, 42 U.S.C. Sections 6321 *et seq.* and 41 CFR Part 301-10.

FEDERAL CHANGES

Contractor shall at all times comply with all applicable FTA regulations, policies, procedures and directives, listed directly or by reference in the Contract between Public Agency and the FTA, and those applicable regulatory and procedural updates that are communicated to Contractor by Public Agency, as they may be amended or promulgated from time to time during the term of this contract. Contractor's failure to so comply shall constitute a material breach of this Contract.

INCORPORATION OF FEDERAL TRANSIT ADMINISTRATION (FTA) TERMS

The provisions include, in part, certain Standard Terms and Conditions required by the U.S. Department of Transportation (DOT), whether or not expressly set forth in the preceding Contract provisions. All contractual provisions required by the DOT and applicable to the scope of a particular Contract awarded to Contractor by a Public Agency as a result of solicitation, as set forth in the most current FTA Circular 4220.1F, published February 8th, 2016, are hereby incorporated by reference. Anything to the contrary herein notwithstanding, all FTA mandated terms shall be deemed to control in the event of a conflict with other provisions contained in this Contract. Contractor agrees not to knowingly perform any act, knowingly fail to perform any act, or refuse to comply with any reasonable public agency requests that would directly cause public agency to be in violation of the FTA terms and conditions.

NO FEDERAL GOVERNMENT OBLIGATIONS TO THIRD PARTIES

Agency and Contractor acknowledge and agree that, absent the Federal Government's express written consent and notwithstanding any concurrence by the Federal Government in or approval of the solicitation or award of the underlying Contract, the Federal Government is not a party to this Contract and shall not be subject to any obligations or liabilities to agency, Contractor, or any other party (whether or not a party to that contract) pertaining to any matter resulting from the underlying Contract.
Contractor agrees to include the above clause in each subcontract financed in whole or in part with federal assistance provided by the FTA. It is further agreed that the clause shall not be modified, except to identify the subcontractor who will be subject to its provisions.

PROGRAM FRAUD AND FALSE OR FRAUDULENT STATEMENTS

Contractor acknowledges that the provisions of the Program Fraud Civil Remedies Act of 1986, as amended, 31 U.S.C. §§ 3801 et seq. and U.S. DOT regulations, "Program Fraud Civil Remedies," 49 CFR Part 31, apply to its actions pertaining to this Contract. Upon execution of the underlying Contract, Contractor certifies or affirms, to the best of its knowledge, the truthfulness and accuracy of any statement it has made, it makes, it may make, or causes to me

made, pertaining to the underlying Contract or the FTA assisted project for which this Contract Work is being performed.

In addition to other penalties that may be applicable, Contractor further acknowledges that if it makes, or causes to be made, a false, fictitious, or fraudulent claim, statement, submission, or certification, the Federal Government reserves the right to impose the penalties of the Program Fraud Civil Remedies Act of 1986 on Contractor to the extent the Federal Government deems appropriate.

Contractor also acknowledges that if it makes, or causes to me made, a false, fictitious, or fraudulent claim, statement, submission, or certification to the Federal Government under a contract connected with a project that is financed in whole or in part with Federal assistance originally awarded by FTA under the authority of 49 U.S.C. § 5307, the Government reserves the right to impose the penalties of 18 U.S.C. § 1001 and 49 U.S.C. § 5307 (n)(1) on the Contractor, to the extent the Federal Government deems appropriate.

Contractor agrees to include the above clauses in each subcontract financed in whole or in part with Federal assistance provided by FTA. It is further agreed that the clauses shall not be modified, except to identify the subcontractor who will be subject to the provisions.

FEDERAL REQUIRED SIGNATURES

Offeror certifies compliance with all provisions, laws, acts, regulations, etc. as specifically noted in the pages above. It is further acknowledged that offeror agrees to comply with all federal, state, and local laws, rules, regulations and ordinances as applicable.

Offeror: Kristoff Eldridge

Address: 28 Commerce Park Rd

City/State/Zip: Pocasset, MA 02559

Authorized Signature: 

Date: 03/20/23

ANTITRUST CERTIFICATION STATEMENTS
TEXAS GOVERNMENT CODE § 2155.005

I affirm under penalty of perjury of the laws of the State of Texas that:

(1) I am duly authorized to execute this contract on my own behalf or on behalf of the company, corporation, firm, partnership or individual (Company) listed below;

(2) In connection with this bid, neither I nor any representative of the Company has violated any provision of the Texas Free Enterprise and Antitrust Act, Tex. Bus. & Comm. Code Chapter 15;

(3) In connection with this bid, neither I nor any representative of the Company has violated any federal antitrust law; and

(4) Neither I nor any representative of the Company has directly or indirectly communicated any of the contents of this bid to a competitor of the Company or any other company, corporation, firm, partnership or individual engaged in the same line of business as the Company.

Company Name: Cape and Island Tennis & Track

Address: 28 Commerce Park Rd

City/State/Zip: Pocasset, MA 02559

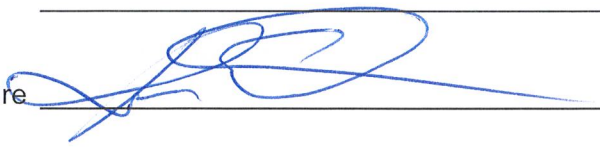
Telephone Number: 508-759-5636

Fax Number: 508-563-7915

Email Address: KEldridge@tennisandtrack.com

Printed Name: Kristoff Eldridge

Title: President

Authorized Signature: 

STATE NOTICE ADDENDUM

The National Cooperative Purchasing Alliance (NCPA), on behalf of NCPA and its current and potential participants to include all county, city, special district, local government, school district, private K-12 school, higher education institution, state, tribal government, other government agency, healthcare organization, nonprofit organization and all other Public Agencies located nationally in all fifty states, issues this Request for Proposal (RFP) to result in a national contract.

For your reference, the links below include some, but not all, of the entities included in this proposal:

http://www.usa.gov/Agencies/State_and_Territories.shtml

https://www.usa.gov/local-governments