



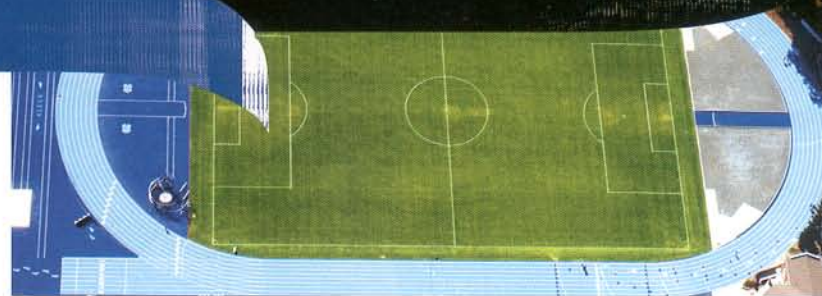
BSS.2000



DUAL DUROMETER, FULL-DEPTH COLOR TRACK SYSTEM

GIVE YOUR TEAM THE ULTIMATE EDGE

WITH THE STATE-OF-THE-ART BSS 2000 TRACK SYSTEM, DESIGNED AND MANUFACTURED FOR OPTIMAL COMPETITIVE PERFORMANCE INDOORS OR OUT.



GROUNDING BY A BIO-ENGINEERED FORCE REDUCTION LAYER OF BUTYL RUBBER AND FULL-DEPTH COLOR POLYURETHANE, THE BSS 2000 PROVIDES **THE RESILIENT RESPONSE** AND MAXIMUM ENERGY RETURN YOUR ATHLETES NEED TO SHATTER RECORDS.

EACH SYSTEM IS **FINISHED WITH A CUSTOMIZED SURFACE** ENGINEERED TO MEET THE INTENSE DEMANDS OF COMPETITION. EPDM GRANULES—EMBEDDED OR ENCAPSULATED, YOUR CHOICE—ARE MIXED THROUGHOUT THE DEPTH OF THE WEAR LAYER FOR BETTER TRACTION—AND TOTAL CONTROL.

CERTIFIED BY THE IAAF AND BACKED BY AN UNPARALLELED **5-YEAR WARRANTY**, THE BSS 2000 IS TOUGH ENOUGH TO HANDLE WHATEVER WEATHER COMES ITS WAY.



- Each surface is IAAF-certified and produced to meet the intense demands of Olympic-caliber competition.
- EPDM granules are mixed through the full depth of the wear layer, giving your athletes superior traction and control.
- The force reduction layer is constructed with butyl rubber and environmentally friendly polyurethane for maximum energy return.



MEETS IAAF PERFORMANCE SPECIFICATIONS

MORE THAN **THIRTY YEARS** EXPERIENCE HAS LED TO THE CREATION OF A **TRACK SYSTEM** THAT **OUTDISTANCES** ALL OTHERS.

BSS 2000 ENCAPSULATED DUAL DUROMETER SYNTHETIC TRACK SURFACING SYSTEM

13 mm Thickness
SECTION 02535
SYNTHETIC TRACK SURFACING

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 2000** 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 full-depth poured-in-place two-component UV stabilized elastomeric polyurethane Dual Durometer synthetic surfacing system with encapsulated 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 Association (IAAF), 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 - 12mm, 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 synthetic surfacing contractor must have a minimum of five (5) years of experience in the installation of full-depth poured-in-place two-component elastomeric polyurethane synthetic track surfacing.

B. The polyurethane manufacturer must have a minimum of ten (10) years of experience with the compounding of two-part polyurethane for athletic surfaces.

C. The supervisor for the installation must have installed a minimum of five (5) full-depth two-component polyurethane tracks with encapsulated texture in the last three (3) years. A reference list must be submitted.

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 manufacturer's currently published specifications and any modifications outlined in those technical specifications.

C. A synthetic track surfacing sample, 12" x 12" in size, color, texture, thickness, etc. of the same synthetic surfacing system specified herein.

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. Two-component UV stabilized elastomeric polyurethane compounded from polyol and isocyanate components, based on 100% MDI.

B. The elastomeric polyurethane shall be red in color.

4.2 EPDM Granulate

A. .5 to 1.5 millimeter peroxide cured EPDM granulate.

B. The EPDM granulate shall be red in color and match the UV stabilized elastomeric polyurethane.

4.3 Rubber Granulate

A. Red butyl rubber processed ground to a graded size not to exceed .5 - 1 millimeter.

B. A maximum of twenty (20) percent, by weight, of the butyl rubber will be allowed in the force reduction layer.

4.4 Aliphatic Coating

A. Two-component aliphatic coating.

B. Aliphatic coating shall be red in color matching the UV stabilized elastomeric polyurethane.

C. No clear coatings will be allowed.

4.5 Line Marking Paint

Two-component aliphatic 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 not vary from planned cross slope by more than 1% with a maximum lateral scope outside to inside of 1% and maximum slope of 1% in any running direction. The finished asphalt shall not vary under a 10' straightedge 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 2000** Dual Durometer synthetic track surfacing system shall average 13mm.

5.3 Equipment

The **BSS 2000** 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 red butyl granules and UV stabilized elastomeric polyurethane shall be metered and mixed together on site to regulate the ratio/quantity of butyl, not to exceed fourteen (14) percent in the system and to insure an even distribution of the granules throughout the 8mm force reduction layer. No multi-layered system allowed.

B. Resilient Wearing Layer

The .5 to 1.5 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 encapsulated EPDM granules.

No structural spray applications of any type will be allowed.

C. Protective Coating

The initial red-pigmented aliphatic polyurethane coating shall be spray applied over the entire synthetic surfaced area at a rate of 125 square feet per gallon.

The second red-pigmented aliphatic polyurethane coating shall be spray applied over the initial application at a rate of 125 square feet per gallon in the opposite direction.

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 F and rising. Installation shall be executed only in dry conditions.

PART 6 - LINE STRIPPING AND EVENT MARKINGS

6.1 Layout

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

6.2 Certification

Upon completion 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.

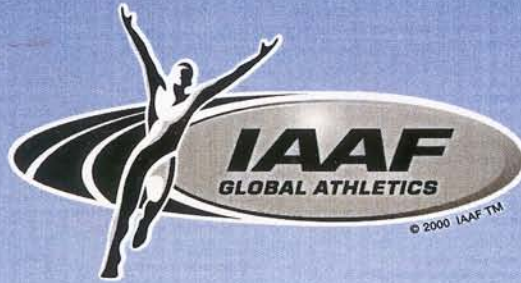
PART 7 - GUARANTEE

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.



16 Alt Rd
Hunt Valley, MD 21030
410.771.9473 (p)
410.771.9479 (f)



CERTIFICATE


THE IAAF IS PLEASED TO CERTIFY HEREBY
THAT THE FOLLOWING PRODUCT

of the Company : Beynon Sports Surface, Inc.
Title of Product : Synthetic surface, BSS-2000 Embedded
Colour / Thickness : 13mm
Catalogue Number : -
Certification N° : S-05-0051

HAS BEEN TESTED AND MEETS THE TECHNICAL REQUIREMENTS FOR
USE IN ALL INTERNATIONAL ATHLETIC COMPETITIONS.

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.

This certificate is valid from : 01 March 2005
until the last day of March 2009



Istvan Gyulai

ISTVAN GYULAI
IAAF General Secretary

Jorge Salcedo

JORGE SALCEDO
IAAF Technical Committee Chairman