

BSS-1000
13mm, HOBART Texture
SYNTHETIC TRACK SURFACING SYSTEM

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 1000** with the **Hobart texture** 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 full depth poured-in-place two-component elastomeric polyurethane Dual Durometer synthetic surfacing system with embedded texture finished with two applications of single component binder and two applications of pigmented polyurethane coating.*
- B. *Layout and paint all track lines and event markings, basketball court markings and tennis courts – all track markings shall be certified for National High School and NCAA standards.*

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 Two – Codes and Standards

2.1 Applicable Publications

- A. *Codes and standards follow the current guidelines set forth by the International Amateur Athletic Association (IAAF), the National Collegiate Athletic Federation (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 \geq 12mm Minimum 10mm
B. Force Reduction	35 to 50%
C. Modified Vertical Deformation	0.6 to 2.5
D. Friction	
TRRL Skid Resistance	\geq 47
E. Tensile Strength	\geq 0.5 Mpa
F. Elongation at break	\geq 40%

Part Three – 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 MANUFACTURER shall be the same and must have a minimum of 10 years of experience with the compounding of two-part polyurethane for athletic surfaces.*
- C. *The CONTRACTOR shall have 10 years experience with the aliphatic coating.*
- D. *The INSTALLATION SUPERVISOR must have installed a minimum of 5 full depth two component polyurethane tracks with encapsulated texture in the last 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 track surfacing system specified herein.*

Part Four – Materials

4.1 Elastomeric Polyurethanes

- A. *Two component elastomeric polyurethane compounded from polyol and isocyanate components based on 100% MDI.*
- B. *The elastomeric polyurethane shall match the EPDM in color.*

4.2 EPDM Granulate

- A. *.5 to 1.5 millimeter peroxide cured EPDM granulate.*
- B. *The EPDM granulate shall match the elastomeric polyurethane.*

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 fourteen percent by weight of the synthetic track system, of SBR will be allowed.*

4.4 Binder Spray

- A. *Apply two applications of moisture cured binder to encapsulate embedded EPDM granulate.*
- B. *Coverage shall be 7-8 gallons per thousand square feet.*

4.5 Pigmented Polyurethane Coating

- A. *Apply two applications of pigmented polyurethane coating color matching EPDM and polyurethane.*
- B. *Coverage shall be 7 gallons per 1,000 square feet.*

4.6 Line Stripping Paint

- A. *Two-component polyurethane paint bonding chemically to pigmented polyurethane coating.*

Part 5 – Installation

5.1 Thickness

- A. *Total thickness of Dual Durometer track system with embedded/encapsulated texture shall average 13 mm.*

5.2 Equipment

- A. *The Dual Durometer Track surfacing components shall be processed and installed by specially designed machinery with automatic portioning, which provides continuous mixing, feeding and finishing for accurate quality control.*

5.3 Materials

- A. *Force Reduction Layer – The fine mesh SBR granules and two component polyurethane shall be meter and mixed on site to regulate the ratio/quality of SBR granules, not to exceed fourteen percent in the system and insure an even distribution of the granules throughout the seven millimeter base course.*
- B. *Resilient Wearing Course – The .5 to 1.5 mm EPDM granules shall be integrated within elastomeric polyurethane to the full depth of 5 mm wearing course. The resilient textured finish shall be a dense matrix of embedded EPDM granules. Excess granules shall be mechanically swept prior to coating.*
- C. *Encapsulating Process – Apply two applications of single component binder over embedded EPDM granules. Apply two applications of two component pigmented polyurethane coating.*

5.4 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. *Leveling of concrete receiving surface shall not exceed +/- 1/8” many 10 feet radius. Moisture content shall not exceed 5%. All in-ground equipment shall be installed prior to installation of synthetic track surfacing.*

Part 6 – Line Stripping and Event Markings

6.1 Layout

- A. *Line stripping and event markings shall be laid out in accordance with IAAF and NCAA rules. Layout all basketball and tennis lines according to approved shop drawings.*

6.2 Certification

- A. *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

7.1 Requirements

- A. *Synthetic track surfacing system shall be fully guaranteed against faculty workmanship and material failure for a period of five (5) years from the date of acceptance.*
- B. *Synthetic surfacing material found to be defective as a result of faculty workmanship and/or material failure shall be replaced or repaired at no charge, upon written notification within the guarantee period.*