

Conversion of a BSS 100 to a BSS 200 Track Surfacing 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 upgrade of the **BSS 100 (Basemat, Structural Spray)** permeable Synthetic Track Surfacing System to a **BSS 200 (Basemat, Seal Coat, Structural Spray)** impermeable system and related work indicated on the drawings and specified herein.*

*The **BSS-200 Conversion** is distributed by:*



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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 consisting of BEYPUR 200, two component polyurethane sealer, and topped with BEYPUR, 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 **BSS 200** synthetic track surfacing system shall exhibit the following minimum performance standards (ASTM):*

A. Thickness:	(12-13mm) or as specified
B. Shore A Hardness:	55 ± 5 (ASTM D-2240)
C. Elongation at Break:	~90% (ASTM D-412)
D. Tensile Strength:	0.75 N/mm ² (ASTM D-412)
E. Compression Set Recovery:	90%-95% over 24hr period (ASTM D-412)
F. Abrasion Resistance:	0.25 grams loss after 1000 cycles (ASTM D-501)
G. Coefficient of Friction:	Dry: 0.7-0.75, Wet: 0.6-0.65 (ASTM D-1984)
H. Resilience:	37%-39% (ASTM D-2632)
I. Tear Resistance:	50-65 psi (ASTM D-624)

2.3 – Product Substitutions

All substitutions must be completely submitted for review a minimum of ten (10) days prior to the opening of the bid. Substitution submittal must include a written side-by-side technical comparison of proposed product and specified product consisting of materials, performance and installation processes. This submittal shall be prepared, stamped, signed and provided by a licensed professional engineer.

Part 3 – Quality Assurance

3.1 – Contractor and Manufacturer Qualifications

- A. *The CONTRACTOR shall have 5 years experience of successfully installing basemat/seal coat/structural spray running tracks and shall have installed a minimum of 10 complete polyurethane running track surfacing systems.*
- B. *The CONTRACTOR shall be able to furnish evidence that they have been in business for a period of not less than 5 years, under the present name, and if required, furnish financial statements for each of the past 5 years.*

- C. *The CONTRACTOR shall also be required to have a full time employee on staff with a “Certified Track Builder (CTB)” designation as awarded by the American Sports Builder’s Association. A current CTB certificate shall be included with the bid package for this project.*
- D. *The 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 in the last 2 years.*
- E. *The MANUFACTURER must have a minimum of 10 years of experience with compound two-part polyurethane for athletic surfaces.*
- F. *The MANUFACTURER must offer a minimum of four (4) IAAF Certified Track Systems.*

3.2 – Submittals

The following submittals must be received with the 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 track surfacing system to be installed on this project.*
- D. *An installation list of outdoor track facilities installed within 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 – Seal Coat

Shall be BEYPUR 200, a two-component polyurethane pore sealer use on paved rubber granule mats and over structural spray applications. The granular SBR and binder layer shall be sealed with the BEYPUR 200. The application of EPDM dust is not allowed or will be considered as an equal..

4.2 – Structural Spray Coating

The spray coating shall be BEYPUR, an MDI-based single-component, moisture cured, 100% solids, 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.

4.3 – Line Marking Paint

Single-component, moisture cured, aliphatic polyurethane paint.

Part 5 – Installation

5.1 – Subbase

The Synthetic Track Surfacing System shall be laid on an existing basemat, structural spray track and field surface that was applied over an approved subbase.

The approved subbase must demonstrate the following characteristics and 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”.

5.2 – Thickness

The thickness of the upgraded track and field surfacing system shall be 13mm.

5.3 – Equipment

The Synthetic Track Surfacing System components shall be processed and installed by specially designed machinery and equipment. 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. Seal Coat

The two BEYPUR 200 components are mixed at the prescribed ratio homogeneously with a suitable mixing device. The coating is squeegee

applied to the existing track surface, making it impermeable .EPDM dusting is specifically prohibited and will not be considered or accepted.

C. Wearing Course

The 0.5 to 1.5mm EPDM granules shall be mixed with BEYPUR, the single-component structural spray coating. The structural spray shall be made in two uniform applications at the rate of 3.3lbs/sy.

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. Required 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 NJSIAA, 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

This scope of work 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.