

# **BSS 100**

## **SYNTHETIC TRACK RESURFACING 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 100** Synthetic Track Resurfacing 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. A spray applied application of EPDM and single component 100% solids – pigmented polyurethane over a properly prepared base of polyurethane bound SBR granules base mat and/or existing basemat structural spray.***
- 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 100** Track Resurfacing System shall exhibit the following minimum performance standards as required by IAAF:*

A.	Thickness	≥ 13mm
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 and Manufacturer Qualifications

- A. *The CONTRACTOR shall have 5 years experience of successfully installing basemat running tracks and shall have installed a minimum of 10 complete polyurethane running track surfacing systems including those requiring a structural spray.*
- B. *The CONTRACTOR shall be able to furnish evidence that they have been in business for a period of not less than five years, under the present name, and if required, furnish financial statements for each of the past five 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 required to provide documentation that shows the selected specified and installed product meets IAAF Performance Specification for Synthetic Surfaced Athletics Tracks (Outdoor) and is certified in terms of the IAAF certification system as updated to present day.*
- E. *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.*
- F. *The MANUFACTURER must have a minimum of 10 years of experience with compound two-part polyurethane for athletic surfaces.*
- G. *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 BSS 100 Track Resurfacing System to be installed on this project.*
- B. *An affidavit attesting that the BSS 100 Track Resurfacing 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 in the last two (2) years using the exact synthetic track resurfacing 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 granules and BEYPUR track surfacing material.*

### 4.2 – EPDM Granules

*The rubber granules for the structural spray wearing coats shall be EPDM peroxide cured, man-made rubber containing a minimum of 20% EPDM and having a density of 1.5 +/- 0.025. For the Structural Spray System and EPDM rubber will be .5mm to 1.5mm, EPDM granules shall be packed in heavy-duty polyethylene bags weighing 55 pounds net. EPDM granules shall be of the same color as chosen by the Owner for the track surface.*

### 4.3 – 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.*

#### 4.4 – 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 100 Track Surfacing material.*

### **Part 5 – Installation**

#### 5.2 – Thickness

*The thickness of the **BSS 100 Synthetic Track Resurfacing System** shall be at a rate of approximately 1.8 lbs/sq. yd. per application (two applications required).*

#### 5.3 – Equipment

*The **BSS 100 Synthetic Track Resurfacing System** components shall be processed and installed by specially designed machinery and equipment. The respray course shall be installed using automatic electronic portioning, which provides continuous mixing and feeding for an accurate, quality controlled installation.*

#### 5.4 – Installation

##### A. Preparation

*The existing polyurethane surface to be recoated shall be clean of all dirt, grease, oil, or potential bond breakers. Surface shall be power washed, if necessary, and allowed to dry prior to re-spraying.*

*Any vegetation migrating in the existing base or surface shall be removed in a manner so as to not damage the surface. These areas in question shall be treated with “round-up” herbicide to inhibit the future growth.*

##### B. Primer Course

*After the surface is cleaned, apply a special Beynon Sports Surfaces, Inc. polyurethane prime coat.*

##### C. Wearing Course

*After the primer coat has properly cured apply a thixotropic mixture of 0.5 to 1.5 millimeter EPDM granules mixed with BEYPUR single-component structural spray coating, mixed in a suitable metal container using a drill and mixing paddle and spray applied using approved air spray equipment designed to handle this heavy rubber mixture. The structural spray coating is applied in applications utilizing 1.80 pounds per square yard*

*for each application. 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.*
- 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*

*The contractor warrants that the synthetic track surface shall be free from defects in workmanship, labor and material under normal use and service for a period of twenty-four (24) months. Track striping and markings shall be warranted for a period of twenty-four (24) months. A **maintenance bond** for one year from completion shall be furnished.*

*This warranty does not apply to any damage to the surface which may be caused by improper design or engineering, by an inadequate or defective base or by normal wear and tear. The surface installer shall guarantee all labor, materials and workmanship for the synthetic surfaces for a period of twenty-four (24) months.*

*The installer shall supply the Owner with written instructions on care of this surface.*