

# **BSS-Encapsulated 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 resurfacing of the **BSS 1000/2000 Dual Durometer** synthetic track surfacing and related work indicated on the drawings and specified herein.*

*The **BSS-Encapsulated Resurfacing** 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. Resurface an existing 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 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-Encapsulated Resurfacing** synthetic track surfacing system shall exhibit the following*

*minimum performance standards as required by IAAF:*

|                                   |  |
|-----------------------------------|--|
| A. Thickness                      | Average - $\geq 5$ mm<br>Minimum - 4mm |
| B. Force Reduction                | 35 to 50                               |
| C. Modified Vertical Deformation  | 0.6 to 1.8                             |
| D. Friction: TRRL Skid Resistance | $\geq 47$                              |
| E. Tensile Strength               | $\geq 0.5$                             |
| F. Elongation at break            | $\geq 40$                              |

### **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.*

## **Part 3 – Quality Assurance**

### **3.1 – Contractor and Manufacturer Qualifications**

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

- C. *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 CONTRACTOR shall have 10 years experience with the aliphatic coating.*
- G. *The MANUFACTURER must have a minimum of 10 years of experience with compound two-part polyurethane for athletic surfaces.*
- 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.*

## **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 .5 to 1.5mm in size and peroxide cured.*
- B. *The EPDM granulates and the U.V. stabilized elastomeric polyurethane shall be color matched red.*

#### 4.3 – Rubber Granulate

- A. *Red butyl rubber processed ground to a graded size not to exceed .5 – 2.5mm.*

#### 4.4 – Aliphatic Coating

- A. *Single Component moisture cured aliphatic coating*
- B. *Aliphatic Coating shall be red in color matching the UV stabilized elastomeric polyurethane.*
- C. *No clear or two component coatings will be allowed.*

#### 4.5 – 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*

*Thickness of the **BSS Encapsulated** synthetic track re surfacing system shall average 5mm.*

## *5.3 – Equipment*

*The **BSS Encapsulated** synthetic track resurfacing 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 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.*

### *B. Protective Coating*

*The initial red pigmented aliphatic polyurethane coating shall be spray applied over the entire synthetic surfaced area at a rate of 150-175 square feet per gallon. The second red pigmented aliphatic polyurethane coating shall be spray applied over the initial application at a rate of 150-175 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 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.*