

BSS Embedded 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 existing polyurethane synthetic track surfacing system 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 an IAAF approved, impermeable polyurethane synthetic track resurfacing system consisting of a poured-in-place, two-component U.V. stabilized elastomeric polyurethane wearing layer with an embedded 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 – Job Conditions

- A. Existing track surface shall be free of paint, grease, oil and any foreign substances that could interfere with adhesion.
- B. Existing surface shall be inspected for any delaminations or bubbles. These visually detectable areas shall be cut and patched prior to applying the resurfacing system.
- C. No other work shall take place in the track area while resurfacing is being done.

2.3 – Performance Standards

The **BSS 2000** synthetic track resurfacing system shall exhibit the following minimum performance standards as required by IAAF:

- | | | |
|----|-------------------------------|---------------------------|
| A. | Thickness | 5mm |
| 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 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 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 outdoor track facilities in the last 2 years using the exact, IAAF certified, poured-in-place, two-component elastomeric polyurethane synthetic track surfacing, as specified herein with the contractor bidding this project.*
- 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 the bid submittal:

- A. Standard printed specifications of the synthetic track resurfacing 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 resurfacing 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 – Elastomeric Polyurethane

- A. BEYPUR, the two-component U.V. stabilized elastomeric polyurethane compounded from polyol and isocyanate components, based on one hundred percent (100%) 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 1 to 3mm in size, 60 shore A hardness and a minimum of 27% peroxide cured. Sulphur cured is not acceptable.*
- B. *The EPDM granulates and the U.V. stabilized elastomeric polyurethane shall be color matched.*

4.3 – Line Marking Paint

- A. *Single-component, moisture cured, aliphatic polyurethane paint specifically manufactured to be compatible with the polyurethane track surface*

Part 5 – Installation

5.1 – Thickness

*The thickness of the **BSS 2000** Synthetic Track Resurfacing System shall be 5mm.*

5.2 – Equipment

*The **BSS 2000** Synthetic Track Re-surfacing System components shall be processed and installed by specially designed machinery and equipment*

5.3 – Installation

- A. *Surface Inspection*
 - 1. *Prior to the application of the resurfacing layer, the existing polyurethane surface shall be inspected for conformity to planarity requirements. The surface shall not deviate more than 1/8 inch in 10 feet from the specified grade when checked with a 10-foot straightedge. An impermeable polyurethane surface may also be flooded with water to determine if any “bird baths” or low areas exist.*
 - 2. *The owner should verify that the surface tolerances meet all specifications issued by the appropriate sanctioning or governing body such as IAAF, NCAA, NFSHSA, TAC, etc.*
- B. *Cleaning- The area to be surfaced shall be clean and free of any loose or foreign particles (dirt, oil, etc.) prior to the commencement of work. The surface is usually cleaned by use of a power blower and high-pressure washer.*

C. *Wearing Course*

The 1 to 3mm EPDM granules shall be integrated into the BEYPUR to achieve the full depth of the 5 mm wearing course. The resilient embedded textured finish shall be a dense matrix of exposed EPDM granules. The homogeneous wearing course shall be applied in situ with the base course.

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. *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 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 BSS 2000 Synthetic Track Resurfacing 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.