



## **SPORT TRACKS® 4000 FULL-POUR SYSTEM**

### **PRODUCT SPECIFICATIONS**

#### **A. PRODUCT**

SPORT TRACKS® 4000 Full-Pour System is a poured-in-place running track surface of impermeable design that is installed in a multi-layered application. The base layer consists of two-component polyurethane compounded from polyol and MDI based isocyanate and SBR or EPDM granules. The top layer is a flow-applied textured layer of the same-pigmented polyurethane and embedded pigmented EPDM rubber granules. The result is a durable, resilient, textured all-weather surface.

SPORT TRACKS 4000 Full-Pour System is warranted against defects in materials, workmanship, significant color fade and granule loss for a period of five years. The warranty excludes damage or defects caused by subsequent deteriorating or improper construction or design of the subbase materials, vandalism, abuse, neglect, lack of maintenance, or acts of God.

#### **B. MATERIALS**

1. Rubber Granulate (Base Layer)  
Styrene Butadiene Rubber (SBR). The rubber granules shall be recycled SBR rubber, chopped, and graded 1-4 mm in size with less than 4% retained on a No. 20 sieve. Granules containing any traces of fiber or steel are unacceptable.
2. Polyurethane (Base and Top Layers)  
This consists of a two-component polyurethane, which is self-leveling and compounded from a proprietary, pigmented polyol and MDI based, "TDI Free", isocyanate. The liquid polyurethane shall contain no more than three parts polyol to one part isocyanate by volume with no mercury, lead, or any other heavy metals added by design.
3. EPDM Granulate  
The EPDM granules shall be manmade, a minimum of 18% peroxide cured EPDM, chopped, processed and having a specific density of 1.5 plus or minus 0.08 and a Shore-A hardness of 60. The granules shall be graded 1mm to 4mm in size unless otherwise specified.
4. Line Marking Paint  
The line marking paint shall be polyurethane-based paint specifically manufactured to be compatible with polyurethane synthetic track surfaces.



## **C EXECUTION**

### **1. Sub-base**

The Synthetic Track Surfacing System shall be laid on an approved sub-base. The General Contractor shall provide compaction test results of 95% or greater for the installed sub-base 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 +/- .1 % with a maximum lateral slope outside to inside of 1% and a maximum slope of .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, either by chipping out or removing and replacing with new, keyed in asphalt. The minimum depth of any asphalt replacement shall be one inch. The curing time for the asphalt is 14 -21 days. It shall be the responsibility of the surfacing contractor to determine if the asphalt substrate has cured sufficiently prior to the application of 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.

Upon completion of surface test and correction of any defects, track surface contractor shall submit to Engineer or Owner a signed certificate stating the existing surface is acceptable and satisfactory for the installation of his track surface system.

### **2. Cleaning**

The area to be surfaced shall be clean and free of any loose or foreign substances (dirt, oil, etc.) prior to the commencement of the work. The surface is usually cleaned by use of a power blower and high-pressure washer.



3. Base Layers

The base layers shall consist of multiple flow-applied layers of pigmented two-component polyurethane and rubber granulate. Each layer shall be flow-applied polyurethane on to which pigmented SBR granules are broadcast at a rate of approximately 7.5-lbs./square yard prior to the initial set. After the cure is complete, the excess rubber granulate is removed by means of a mechanical sweeper. This process is repeated until the desired thickness is reached.

4. Top Layer

The top layer shall consist of a flow applied 3 mm layer of the same pigmented two-component polyurethane on to which pigmented EPDM granules are broadcast at a rate of approximately 7.5 lbs./square yard prior to the initial set. After the cure is complete, the excess rubber granulate is removed by means of a mechanical sweeper. The EPDM granulate remaining embedded in the surface is approximately 5 lbs./square yard.

5. Equipment

The components for both layers shall be blended in a clean and dry, specifically designed, mixing machine with automatic proportioning controls to guarantee exact proportions of the polyols and isocyanates which control the reactions and balance of the varying climatic conditions during the laying process. No hand mixing or spray coating is utilized for the application.

6. Line Markings

All line and event markings shall be applied by experienced personnel utilizing polyurethane based paint compatible with the synthetic track surfacing. All markings dimensions will be certified in accordance with the specifications issued by the appropriate sanctioning or governing body such as IAAF, NCAA, NFSHSA, etc.

7. Physical Properties (ASTM/IAAF)

Color: Red or as specified by owner.

The new synthetic track surfacing system shall exhibit the following minimum performance standards as required by the IAAF.

A. Thickness	Average $\geq 12$ Minimum 10mm
B. Force Reduction	35 to 50%
C. Modified Vertical Deformation	06 to 1.8mm
D. Friction	$\geq 47$
TRRL Skid Resistance	
E. Tensile Strength	$\geq 0.5\text{Mpa}$
F. Elongation at Break	$\geq 40\%$



**D. CONTRACTOR QUALIFICATIONS**

Contractors wishing to be considered as an “or equal” must provide documentation for their products 10 days prior to the bid opening.

**E. INSTALLER**

SPORT TRACKS 4000 Full-Pour System shall be installed only by trained craftsmen who are full-time employees. No outside installer or distributor will be sold or furnished with Hellas Sport Track material for installation except as licensed by Hellas.

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