



SPORT TRACKS® 100 BASE MAT SYSTEM

PRODUCT SPECIFICATIONS

A. PRODUCT

SPORT TRACKS® 100 is a porous paved-in-place synthetic sport surface comprised of polyurethane bound rubber strands and rubber granules.

SPORT TRACKS 100 is warranted against defects in workmanship, labor and materials under normal use and service. The warranty excludes damage or defects caused by improper design or engineering, by an inadequate or defective base, by normal wear and tear, vandalism, abuse, neglect, lack of maintenance, or acts of God.

B. MATERIALS

1. Primer
Polyurethane-based primers especially formulated to be compatible with the base and track surfacing materials.
2. Black SBR Granules
The rubber granules for the base mat shall be recycled SBR rubber, processed and chopped to 1-3 mm size, containing less than 4% dust.
3. Polyurethane Binder
Binder for the black rubber mat shall be an MDI-based and or MDI/TDI mixture, mono-component, black-pigmented, polyurethane binding agent. The binding agent shall not have a free TDI monomer level above 0.2%, must be black in color and must be solvent free. The binding agent must be specially formulated for compatibility with SBR crumb rubber.
4. Line Marking Paint
The line marking paint shall be polyurethane-based paint, specifically manufactured to be compatible with polyurethane synthetic surfaces.

C. EXECUTION

1. Sub-base
The Synthetic Track Surfacing System shall be laid on a sub-base designed and approved by a licensed engineer. The General Contractor shall provide compaction test results of 95% or greater for the installed sub-base and the finished 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. Curing
Before application of the synthetic surface can begin, the asphalt should be cured for at least 14 - 21 days; and a concrete base a minimum of 28 days.
3. Cleaning
The area to be surfaced shall be clean and free of any loose or foreign particles (dirt, oil, etc.) prior to commencement of the work. The surface is usually cleaned by use of a power blower and/or high-pressure washer.
4. Priming
The primer shall be spray-applied in accordance with the manufacturer's specifications. Only those areas that can be installed the same day should be primed.



5. Mixture Composition. Job mix formulas shall be as follows:

SBR Rubber Granules	100 lbs
Black MDI Binder	20 lbs

6. Surface Installation

The black rubber and polyurethane binding agent are blended together in a suitable mixer for a period of 2-3 minutes. The blended materials are then spread onto the asphalt/ concrete base by means of a mechanical tandem leveler at a rate of 16 to 16.5 pounds per square yard. The tandem leveler shall have a heated

oscillating screed bar to obtain both smoothness and compaction. The heated screed bar normally works at a temperature of 158 - 176 Degrees F. The laying procedure shall be bay-to-bay and limiting the length of the passes so as not to have any cold (cured) joints between the bays. At the beginning of each new day's work the traverse joint from the previous day's work shall be tack coated to ensure a good bond. Any small irregularities remaining in the surface after the tandem leveler has passed may be removed using a light polyethylene, Teflon roller or hand trowelled.

The surface hardens through the reaction of the binding agent with humidity. The speed of the reaction depends on temperature and relative humidity. Usually the surface may be walked upon the next day.

7. Line Markings

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

8. Physical Properties

Thickness:	1/2" (12-13mm) or as specified
Color:	Black
Hardness (ASTM D-2240):	Cannot be measured because of porous structure
Elongation:	85%
Tensile Strength (ASTM D-412):	0.65 N/mm ² @ 70F.
Compression Set (ASTM D-412):	90% to 95% @ 70F over a 24-hour period.
Chalking (ASTM D-822):	No change after 1000 hours in weather meter.
Coefficient of Friction: (ASTM D-1984)	Dry 0.70 to 0.75 Wet 0.60 to 0.65
Resilience (ASTM-D2632):	37% - 40%
Tear Resistance (ASTM D-624):	48 to 65 psi



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 100 shall be installed only by trained craftsmen, who are full-time employees. No outside installer or distributor shall be allowed to install Hellas sport surfaces unless licensed.

It is a requirement of this specification that the selected installer be required to supply proof of conformance to the Prevailing Wage Laws.

F. MANUFACTURER

SPORT TRACKS 100 is manufactured by: Hellas Sport Surfaces a Division of Hellas Const., Inc.

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