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FAST TRACK 400

PART 1 GENERAL

Polyurethane running track surfacing system

1.0 DESCRIPTION

Resilient, water permeable, synthetic rubber track surfacing comprised of a paved polyurethane/ rubber base mat and a spray applied polyurethane/red rubber top layer installed over an asphalt base to a compacted thickness of 13 mm.

1.00 MATERIALS

1.01.1 Black Rubber Granules – the rubber granules for the paved base mat shall be Black SBR rubber processed and chopped to 1-3 mm size containing less than 4% dust. Processed rubber shall be packed in suitable bags to protect the rubber from moisture during transportation and handling.

1.01.2 EPDM Rubber – The rubber granules for the Structural Spray applied top layer shall be EPDM peroxide cured, man made rubber containing a minimum of 20% EPDM, having a density of 1.5, and graded to 0.5 – 1.5 mm size. The EPDM granules shall be of the same color as selected by the owner for the track surface.

1.01.3 Polyurethane Binders

1.01.3.a Base Mat – Binder for the paved base mat shall be an MDI based , one component, polyurethane binding agent, and be solvent free. The binding agent must be specially formulated for compatibility with SBR and EPDM rubber granules. Specific gravity of the binding agent shall be 1.07.

1.01.3.b Structural Spray Top Layer – Binder for the Structural Spray top layer shall be pigmented one- component polyurethane specially formulated for mixing with EPDM rubber granules. Specific gravity of the binder shall be 1.10. The binder color shall be of the same color as selected by the owner for the track surface.

1.01.3.c Line Paint – Paint for the lane lines and event markings shall be polyurethane or latex line paint compatible with the track surface.

1.01.4 Physical Properties:

Thickness:	13 mm
Color:	Black mat/Red Structural Spray
Density	0.75 – 0.78
Hardness (ASTM D-2240)	
Shore A [70 deg F 50 – 60] [140 deg F 45 – 55] [35 deg F 55 – 65]	
Resilience (ASTM D-2632)	37 – 44%
Tensile Strength (ASTM D-412)	80 psi @ 70 deg. F. over 24 hours
Elongation (ASTM D-412)	120%
Compression Set (ASTM D-395)	90 – 95% @ 70 deg. F. over 24 hours
Coefficient of Friction (ASTM D-1894)	Dry: 0.70 – 0.75Wet: 0.90 – 0.95
Abrasion Resistance (ASTM D-501)	0.25 – 0.425 grams loss 1000 cycles
Tear Resistance (ASTM D-624)	50 – 75 PSL
Chalking (ASTM D-822)	No change after 1000 hours
Spike Resistance	Class I

2.00 MIXTURE COMPOSITIONS

2.01 Paved Base Mat

Black rubber granules	80% by weight
Polyurethane Binder	20% by weight
Application temperature	Min. 40 deg. F

2.02 Structural Spray Top Layer

EPDM Rubber Spray Granules	40% by weight
Polyurethane Binder	60% by weight

3.00 INSTALLATION

3.01 Allow asphalt base shall be cured for a minimum of 14 days.

3.02 Primer

Apply an approved polyurethane primer over the entire area to be surfaced at a rate of 0.28 pounds per square yard using an airless spray machine. Allow 20 – 30 minutes for the solvent in the primer to evaporate before starting installation.

3.03 Black Base Mat

The Black rubber granules and polyurethane binder are blended together in a suitable mechanical mixer for a period of 2 – 3 minutes. The blended materials are then spread onto the primed asphalt base by means of a tandem leveler. 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 deg. 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 days work the traverse joint from the previous day shall be tack coated to ensure a good bond. The surface hardens through the reaction of the binder with humidity. The speed of the reaction depends on the temperature and relative humidity. Usually the surface can be walked upon the next day. The base mat shall be installed at a compacted thickness of 9.5 mm

3.04 Structural Spray Top Layer

The structural spray materials described above shall be blended in a clean suitable container using a drill and mixing paddle and spray applied using approved spray equipment designed to handle this heavy rubber mixture. The Structural Spray Top Layer shall be applied in two applications at a rate of 1.80 lbs. /SY for a total applied weight of 3.60 lbs. /SY. The two applications shall be applied in opposite directions. Care shall be taken during the spray operation to protect adjacent structures and areas from overspray.

3.05 Track Striping

Painted lane lines and event markings shall be performed in conformance with the governing Track & Field regulations and shall include all lines and graphics required or as directed by the owner. Approved line paint in the desired colors shall be applied by means of a line striping machine capable of producing neat lines with clear edges.

4.00 GUARANTEE

The contractor shall provide a written guarantee covering all workmanship and materials for a period of (5) Five Years from the date of final acceptance.

NOTICE: These specifications are merely guides for use by Landscape Architects, engineers, contractors. It is hoped that these specifications will be of particular value to those who do not have detail knowledge of synthetic safety flooring and that it will aid in maintaining high construction standards. CSP, its agents and employees do not warrant the specifications as proper under all conditions.

**FOR OTHER SPECIFICATIONS OR COLORS PLEASE CONTACT:
Child Safe Products 1-800-730-0064**