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FAST TRACK 300

PART 1 GENERAL

Polyurethane sandwich system with broadcast EPDM rubber crumb finish

1.0 DESCRIPTION

Resilient, water impermeable, synthetic rubber running track surfacing system consisting of a sealed polyurethane-bound paved rubber base mat with a polyurethane flood coat and broadcast EPDM rubber granule wear coat, installed at a compacted thickness of 13 mm.

1.00 MATERIALS

1.01.1 SBR Black Rubber Granules - the rubber granules for the paved black base mat shall be recycled SBR rubber having a specific gravity of 1.13 processed and chopped to 1 – 3 mm. size containing less then 4% dust. Processed rubber shall be packed in suitable bags to protect the rubber from moisture during transportation and handling. Bags shall weigh 50 pounds + or – 2 pounds.

1.01.2 EPDM Rubber - the rubber granules for the wearing coat shall be EPDM peroxide cured, man-made rubber containing a minimum 20% EPDM, having a specific gravity of 1.50 and chopped to 1–4 mm size. The EPDM granules shall be the same color as selected by the owner for the track surface.

1.01.3 Polyurethane Coating Compound

1.01.3 a Prime Coat: Primer shall be one-component MDI based polyurethane specifically formulated for adherence of new polyurethane coatings to asphaltic or concrete surfaces.

1.01.3 b Black Base Mat: Binder for the black base mat shall be a 100% MDI based one-component binding agent, and be solvent free. The binding agent must be specifically formulated for mixing with SBR rubber granules. The specific gravity of the binder shall be 1.07.

1.01.3 c Black Base Mat Seal Coat: Specially formulated heavy bodied two-component pigmented polyurethane coating blended with 0.1 – 0.5 mm. rubber granules designed for sealing black rubber base mats.

1.01.3 d Wear Coat Coating Compound: A two-component pigmented, polyurethane coating compound formulated for indoor and outdoor track surfaces. The color of the compound shall be the same color as chosen by the owner for the track surface.

1.01.3 e Line Paint: 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		Red
Density		0.81 – 0.85
Hardness (ASTM D-1894)	Shore A	45 – 55
Resiliency (ASTM D-2632)		50
Tensile Strength (ASTM D-412)		85 psi
Elongation (ASTM D-412)		40%
Compression Set (ASTM D-395)		10% @ 25 psi
		50% @ 270 psi
Compression set recovery after 2 hrs		98 – 100%
Resistance to spikes		Class I

2.00 MIXTURE COMPOSITIONS

2.01 Black Base Mat

SBR rubber granules	80% by weight
Polyurethane binding agent	20% by weight
Application temperature	Min. 35 deg. F

2.02 Base Mat Sealer

Coating Compound	55% by weight
SBR or EPDM rubber granules	45% by weight

2.03 Wear Coat Coating Compound

Part A	1 parts by volume
Part B	1 part by volume

3.00 APPLICATION

3.01 Allow the asphalt base to cure for a minimum of 14 days.

3.02 Primer

Apply an approved polyurethane primer over the entire surface 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 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 temperature and relative humidity. Usually the surface may be walked upon the next day. The black base mat shall be installed at a compacted thickness of 8 mm.

3.04 Base Mat Sealer

Blend the rubber granules into the coating compound using a drill and mixing paddle or other suitable mechanical mixer and spread the prepared mixture over the black base mat at the rate of 2.65 pounds per square yard using a stiff bladed squeegee.

3.05 Top Layer

Thoroughly mix the two-component coating compound using a high shear paint mixer for a period of 2 – 3 minutes or until the resin is completely blended. The blended coating is then spread onto the sealed base mat with an 8 mm notched squeegee at a rate of 7.0 pounds per square yard. Immediately after applying the coating compound, broadcast the EPDM colored rubber granules onto the surface in sufficient quantity to completely cover the surface. After the coating compound has cured, recover the excess granules to leave the desired finish. This should yield a top layer thickness of 5 mm.

3.06 Striping

Layout and apply painted lane lines and event markings as per the governing rules. The line paint in the desired colors shall be applied by means of an approved line striping machine capable of producing neat lines with sharp 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 no 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:
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