



An ATG Sports Product

Track Specifications

Product: Joske SW

1.0 PRODUCT DESCRIPTION

1.1 The Joske SW is a multi layer, paved and poured in place, polyurethane and rubber running track system. Thickness of the surface can vary depending on the owner's needs and budget. The specifications herein are based on 14.2mm. The impermeable running track system consists of (1) base primer, (2) 11.mm EPDM rubber and polyurethane shock mat, (3) mastic sealer, (4) 3.2mm flow applied polyurethane flood coat and rubber, and (5) line striping.

* Actual bids will be based on owner's specified thickness in base bid.

* Industry normal thickness is 13mm.

2.0 MATERIALS

2.1 Pavement Primer:
Pavement primer will be .20 kg/m²

2.2 Industrial EPDM Rubber:
Industrial EPDM rubber will be 7.5 kg/m²

2.3 Shock Mat Polyurethane:
Shock mat polyurethane will be 21% of the total rubber weight

2.4 Pore Sealer:
Pore sealer will be 1.4 kg/m²

2.5 Two Component Polyurethane:
Two component polyurethane will be 2.2 kg/m²

2.6 Gezolan Red EPDM Rubber:
Gezolan red EPDM rubber will be 4.0 kg/m², scattering quantity

2.5 Soft Aliphatic Polyurethane
Soft aliphatic polyurethane will be .29 kg/m²*

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*Amount will vary depending on texture coat and thickness required.

3.0 INSTALLATION

3.1 Pavement Inspection:

It is highly recommended that all sandwich systems be placed over porous (popcorn) asphaltic paving. Check pavement for any irregularities. Area to be surfaced shall not vary from the required line, grade and cross-section set forth in the owner specifications by more than 1/8" in 10'. Any irregularities shall be corrected with the shock mat material. No fillers may be used to repair low areas. High spots shall be ground off prior to installation of shock mat material. Asphaltic pavement must have cured at least 14 days prior to surfacing installation. Concrete surfacing shall have a minimum of 30 days cure time. All areas to be surfaced must be clean from dust or other matter prior to installation.

3.2 Primer:

Polyurethane based primer shall be applied to the pavement at a rate of .20 kg/m². Primer shall be formulated to insure adhesion between the paving and the new polyurethane surfacing. Shock mat to be installed within 24 hours of applying primer.

3.2 Shock Mat:

Shock Mat is manufactured from single component polyurethane binder and industrial grade rubber. The polyurethane and rubber shall be mixed in a continuous mixer at a ratio of 100 lb. rubber to 22 lb. of polyurethane. Batch mixing will not be allowed. Shock mat shall be applied with a sports paver specifically designed for running surfaces with a heated vibrating screed. 11' SMG Plano Matic, 1999 or newer. Minimum rubber is 7.5 kg/m². Minimum polyurethane is 21% of the total rubber weight. Industrial grade EPDM rubber granules processed to a size of between 1mm-3mm. free of fabric and foreign material. Recycled tire rubber will not be allowed. Moisture content shall not be more than 3%.

3.3 Mastic Sealer:

The two component polyurethane mastic shall be applied at a rate of 1.4 kg/m² in order to seal the shock mat making it impermeable. The flood coat shall be applied within 24 hours of the sealer. Installer shall not apply mastic to any areas which cannot be re-coated within the 24 hour time period. Any areas which go beyond the 24 hour time frame shall receive a coat of primer before proceeding with additional layers.

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3.4 Texture Coat:

A) Broadcast Texture:

The broadcast texture is two component polyurethane with a specific gravity between 50 and 55 and rubber granules. The polyurethane shall be flow applied. The colored rubber granules shall be broadcast on top of the freshly applied polyurethane at a rate of 4.0 kg/m². After the polyurethane has cured, the excess rubber shall be removed. The embedded rubber which remains shall measure about 2.5 kg/m².

B) Encapsulated Texture:

Texture coat - Using a structural spray machine, apply a mixture of polyurethane and EPDM rubber. This mixture shall be 100 parts polyurethane to 45 parts rubber granules by weight. The size of the rubber granules will be determined the amount of texture. Granules can be between .5mm-4mm depending on the owners needs. Spray apply a minimum of 2 coats, or until the required minimums have been meet.

3.5 Aliphatic Top Coat (Encapsulated Texture Only)

Using an airless spray machine, apply two coats of polyurethane soft aliphatic top coating. This material shall be applied at a rate of not less than .32 lb/yd per coat. Apply in two layers being sure to spray in opposite directions for each layer. Total application rate shall be .29 kg/m²

4.0 EQUIPMENT

4.1 Below is a list of the more important equipment needed for the specialized running surface installation. The equipment listed below must be provided prior to commencement of any work.

A) Airless sprayer designed for spraying polyurethane

B) SMG 11' Plano-Matic sports paver with hydraulic assisted electric motors and heated vibrating screed

C) Continuous mixer for the accurate metering and mixing of shock mat and two component polyurethane and rubber. Mixer must be capable of mixing two component polyurethane and rubber simultaneously.

D) Texturing machine specifically designed for applying polyurethane and rubber texturing materials

5.0 Warranty

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5.1 All Joske polyurethane surfaces come with a standard five year warranty against excessive wear and defects. For more specific information, please refer to owner's manual.

6.0 LINE STRIPING

6.1 Calculations:

All calculations must be done by a computer program which has been programmed specifically for calculating tracks.

6.2 Numerical values must be accurate to ten to the negative seventh power.

6.3 Copies of computations must be provided to the owner and/or his agent.

6.4 Lane Lines:

Lane lines must be a clean two inches in width with no more than 1/8 inch tolerance in either direction.

6.5 Paint:

Paint must be a two part urethane, applied at a rate of no less than two gallons per lane line and .03 gallons per square foot for all other events such as start lines, exchange zones, numbers, etc.

6.6 Engineers pins shall be buried nine inches deep at both radius points. All markings in the curves shall be laid out with a Theodolite and shall be accurate to within 20 seconds of one degree. A typical transit is not considered suitable for lay out. Straights shall be laid out and marked using a steel engineers tape with proper allowances for temperature.

6.7 Dimensions of Markings:

Start lines: 2" x (lane width), exchange zones: 15" triangular to point, preps: 6" equilateral triangle, hurdles: 2-1/2" triangles painted directly on lane line

7.0 GENERAL

7.1 ATG's bid is based on the owner / general contractor providing ATG proper access to the jobsite at all times. Proper access includes, but may not be limited to, a paved or gravel road from the nearest county or city street to the work area.

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