

## POLAPLAST P20

Two component running track PUR wear coat material for Sandwich and Full PU System running track/field

### GENERAL CHARACTERISTICS

**POLAPLAST P20** is an pigmented and solvent free thixotropic, two component polyurethane material with good elastic, tensile strength properties. Meets IAAF standard, it's environment-friendly, flexible, high strength.

**POLAPLAST P20** is easy to apply; it shows excellent resistance to moisture during the curing phase and a good curing behavior even at low or high temperature.

### TECHNICAL DATA

Mixing Ratio	6,67 : 1 (By weight) - A to B : 100/15
Density of mixture (20°C)	app. 1,44±0.1 gr/cm <sup>3</sup>
Density of Comp. A (20°C)	app. 1,48±0.1 gr/cm <sup>3</sup>
Density of Comp. B (20°C)	app. 1,22±0.05 gr/cm <sup>3</sup>
Pot-life (23°C)	30-75 min.
Application temperature	Min 5°C
Curing (20°C and %60 relative humidity)	After 24 hours it cures.
Color	Grey, Red, other.

## PREPARATION- APPLICATION

POLAPLAST P20 running track material is used as wear coat for sandwich running track systems. It provides good force reduction and is constructed on a cast-in-situ cushion base layer of SBR rubber granules mixed with clear polyurethane binder, which is first sealed with the sealing layer POLAPLAST P22 before the application of POLAPLAST P20, with a final topping of colored EPDM granules broadcast onto POLAPLAST P20.

POLAPLAST P20 is a high performance system. It's applied on shock-pad of 10-12mm (after the use of POLAPLAST P22 PU pore filler) by toothed trowel, with approximate consumption of 2.5kg/m<sup>2</sup> and the subsequent broadcasting of EPDM granules (1-3mm).

### **Substrate Preparation**

**POLAPLAST P20** is applied on top of the sealing layer **POLAPLAST P22** which seals the top of prefabricated cushion or in situ installed rubber granule mats. After the sealing with PU pore filler. The subfloor has to be dry, load bearing, clean and free of loose and brittle particles and substances which impair adhesion such as oil, grease, paint or other contaminants (Sandwich system).

**POLAPLAST P20** is applied directly on good quality concrete/asphalt (first class road standard, with primer) which have to be dry, load bearing, clean and free of loose and brittle particles and substances which impair adhesion such as oil, grease, paint or other contaminants.(Full-PU system).

The interval between the application of pore sealer and further coatings should not exceed 48 hours.

### **Installation Processing**

Processing temperature of both components should be between 15-30°C.

The well mixed material is applied with a flat rubber or metal squeegee under pressure to tightly scrape off the material.

The resin component should be thoroughly stirred to incorporate any slight separation, whilst continuing stirring the contents of the hardener container should be added. Continue stirring until a homogeneous mix is obtained. The mixed material must be used within 30-75 minutes of mixing at 20°C. The mixed **POLAPLAST P20** material can be laid to the surface and before the mixture cures you should spread the EPDM granules (1mm- 3mm).

Material coverage lies between 1.25kg/m<sup>2</sup>/mm (2.5kg/m<sup>2</sup> for a standard sandwich system) and the material consumption depends on the surface structure (grain size, compaction, evenness) and on the temperature of substrate, ambience and material. Substrate temperatures must not exceed 50°C as this would liquefy the material and increase the coverage.

At low temperature and humidity, the speed of reaction is reduced resulting in a longer pot life, re-coating interval and open time. The speed of reaction is accelerated at high temperatures and humidity and the converse is true. Direct sunshine shortens the time frames considerably.

During the first hours after application, the coating had to be protected from direct contact with water as this could cause foaming of the material. In case of (expected) rain, **POLAPLAST P20** should not be applied.

Sealed surface with **POLAPLAST P20** can be recoated during the first 48 hours after application without the use of primer if the surface is dry and clean.

## REMARKS

Use a slow rotating mixer at approximately 300-500rev/min for at least 3-4 minutes until the blend is homogenous and streak free. Ensure that the mixer reaches the side and bottom area of and mix it again for one additional minute. Processing temperature of both components should be between 15-30°C.

For health and safety protection, transport regulations and waste management please consider the Material Safety Data Sheet. Users are advised to wear gloves and eye protection when mixing or applying **POLAPLAST P20**. **POLAPLAST P20** is no-hazardous in its cured condition.

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## CAUTION

The characteristic data are approximate values. They do not represent warranted characteristics. Consequently, no liability claims of any kind may be derived from the Technical Data Sheet.

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The information given here is true, represents our best knowledge and is based not only on laboratory work, but also on field experience. However, because of numerous factors affecting results we offer this information without any guarantee and no patent liability is assumed. For additional information or questions, contact the technical department of KDF LTD.

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