

POLAPLAST P10

POLYURETHANE PRIMER ONE-COMPONENT

GENERAL CHARACTERISTICS

POLAPLAST P10 is a low viscosity, moisture curing, clear, polyurethane-based, one-component resin with good long term elasticity. **POLAPLAST P10** is used as an adhesive component between the sub-floor and the **BASE COAT OF POLTRACK SYSTEM**.

- Penetrates in depth.
- Ideal for old and new surfaces.
- Designed for improving adhesion of **BASE COAT OF POLTRACK SYSTEM** on asphalt and concrete surfaces without rising humidity issues.
- **POLAPLAST P10** contains solvents.

TECHNICAL DATA

Basis:	one-component polyurethane
Appearance:	liquid
Color:	transparent
Viscosity DIN 53018/1+2:	approx. 100 mPa•s at 20°C
Density DIN 53217:	approx. 1,00 gr/cm ³ at 20°C
Temperature for the application and drying of the material:	5 – 35°C

PREPARATION-APPLICATION

Applied on dry surfaces without rising humidity issues, free of materials that might prevent bonding e.g. dust, loose particles, grease etc (in case of asphalt or concrete). The success in the application depends on the right preparation of the underlay and use of the material.

- **Good, dry** cleaning of the surface from dust and residues.
- Priming of the surface with **POLAPLAST P10 applied by airless spray equipment or brush. The BASE COAT OF POLTRACK SYSTEM** should be constructed while **POLAPLAST P10 is still a bit sticky**. Curing takes place at ambient temperature by evaporation of the solvent and reaction with atmospheric moisture. High temperatures and moisture will shorten the cure time.
- The temperature should not fall below 5 °C during curing.
- Opened drums should be used up quickly.
- Depending on the temperature and humidity, 3-5 hours is the minimum waiting time.

- The **BASE COAT OF POLTRACK SYSTEM** should be constructed within 24 hours of primer application.
 - **NOTE: Rain will cause the primer to lose its function! If the primer was affected by rain, the base layer should not be constructed! Instead, the sub floor has to dry and the primer application has to be repeated.**
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CONSUMPTION

150-200 gr/m² depending on the type and the absorbency of the underlay.

APPLICATION TOOLS

Airless or low-pressure spray equipment or brushes.

PACKAGING

Supplied in drums of 200 Kg.

STORAGE

One year in unopened containers in cool and dry places, out of sunlight, with minimum temperature 5°C and maximum temperature 30°C.

CAUTION

The application must take place in well-aired places using protective gloves. Skin or eye contact must be avoided, otherwise wash carefully with soap and water.

For more information consult the material safety data sheet.

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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POLAPLAST P22

Two component running track PU material for Sandwich System
Sealing Layer for Sandwich running track system

GENERAL CHARACTERISTICS

POLAPLAST P22 is a pigmented and solvent free thixotropic, two component polyurethane material with good elastic and tensile strength properties. Meets IAAF standard, it's environment-friendly, flexible, high strength.

POLAPLAST P22 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	9 : 1 (By weight)
Density of mixture (20°C)	app. 1,75±0.1 gr/cm ³
Density of Comp. A (20°C)	app. 1,88±0.1 gr/cm ³
Density of Comp. B (20°C)	app. 1,22±0.05 gr/cm ³
Pot-life (23°C)	30-40 min.
Application temperature	Min 5°C
Curing (20°C and %60 relative humidity)	After 24 hours it can be sanded.
Color	Crème

PREPARATION-APPLICATION

POLAPLAST P22 running track material is used as sealing layer in the sandwich running track system, provides good force reduction and is constructed on a cast-in-situ cushion base layer of SBR rubber granules mixed with clear polyurethane binder, with a final toping of colored EPDM granules broadcast onto a wear coat of polyurethane compound (**POLAPLAST P20**).

Substrate Preparation

POLAPLAST P22 track material is applied directly on top of prefabricated or in situ installed rubber granule mats 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.(Sandwich system)

The interval between the application of pore sealer (first coating) and further coatings should not exceed 48 hours. In case of longer breaks, the use of **POLAPLAST P22** as bonding agent is recommended after cleaning thoroughly.

Installation Processing

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

The well mixed material is applied on the rubber base mat or concrete/asphalt with primer 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 30-40 minutes of mixing at 20°C The surface must be dry and clean. It can be applied by trowel.

Material coverage lies between 1.25-1.50kg/m²/mm and the material consumption depends on the surface structure if the base mat (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 P22** should not be applied.

Pore-sealed surface with **POLAPLAST P22** track material 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.

You can add 10-15% EPDM powder in the already mixed materials for better workability.

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 P22**. **POLAPLAST P22** is no-hazardous in its cured condition.

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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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 ³
Density of Comp. A (20°C)	app. 1,48±0.1 gr/cm ³
Density of Comp. B (20°C)	app. 1,22±0.05 gr/cm ³
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/m² 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/m²/mm (2.5kg/m² 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.

CAUTION

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SBR RUBBER GRANULES 858

GENERAL CHARACTERISTICS

IT CAN BE USED IN SPORT FACILITIES SUCH AS INFILL IN SYNTHETIC GRASS WITH THE PARALLEL USE OF ROUND SAND AND ALSO AS ONE THE COMPONENT IN CASE OF CAST APPLIED WET POUR SYSTEMS FOR PLAYGROUND FLOORINGS OR AS SHOCKPAD FOR SPORT SUBFLOORS IN ATHLETIC TRACKS OR SPORT FIELDS.

Rubber granule is derived from car and truck tires. During processing, the tyres are mechanically granulated, removing all metal and synthetic fibres, as well as any other foreign part contained in there with specially designed sieves, so as to produce a 99.99% clear rubber with high quality, certified by ISO 9001 and ISO 14001.

PROPERTIES

- Totally environment friendly
- 100% recyclable
- Long life
- Resistance to adverse weather conditions
- High shock absorbency and vibration damping
- High abrasion resistance
- It is not harmful to human health

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PREPARATION- APPLICATION

- In sports facilities, playgrounds, recreational and circus to ensure flexibility of surface and vibration absorption.
- In drainage layer construction zones, in new type landfills and explosion of biogas in uncontrolled waste areas, as replacement of gravel.
- In lime and cement factories and energy production units, because of the high calorific efficiency during combustion.
- On construction of river dams under unstable conditions, in ball form,
- As replacement of various materials such as cement, gravel and protection sandbags.
- In Earth banks / dikes to reduce the noise of urban road arteries.
- As road substrate with anti-vibration and thermal insulation properties.
- On building constructions as replacement of traditional insulating materials such as extruded polystyrene, the LECA and metal slag.
- In gardens to ensure moisture.
- In shoe soles, technique implemented for recent years from Timberland company.

TECHNICAL CHARACTERISTICS

DENSITY:	1.08kg/cm ³
BULK DENSITY:	0.49g/cm ³
HEAT LOSS (ASTM D1509) kgf/cm ² :	< 1 %
METAL CONTENT (ASTM D5603):	< 0.5 %
FIBER CONTENT (ASTM D5603)-ML (Vr):	< 1 %

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PACKAGING

Packaging is available in big-bags -1 ton in following sizes:

Grain size	0,5-1,5 mm
Grain size	0,5-2,5 mm
Grain size	0.5-4.0 mm
Grain size	2-8 mm
Grain size	8-20 mm
Grain size	80-50 mm
Grain size	80-120 mm

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EPDM 856

RUBBER GRANULES

GENERAL CHARACTERISTICS

Type of material: Rubber EPDM

Grain size: 0.8-2.5mm,1.0-3mm,1.0-4mm or others

PERFORMANCE OF SAMPLE 18%

Test item	Performance	Test according to
Ash content (wt. %)	65.3	TG Analysis(Affix I)
Tensile strength (Mpa)	1.88	GB/T 10654
Elongation at break (%)	357	GB/T 10654
Hardness (shore A)	64	GB/T 531
Density (g/cm ³)	1.62	GB/T 1033

PREPARATION-APPLICATION

For installing in sports fields, running tracks, tennis courts, swimming pools, wet pour play surface, kids playground, indoor and outdoor flooring systems, infilling the artificial turf or for making rubber tiles.

REMARKS

- All technical data are correct to the best of our knowledge and are intended to help our customers.
- They do not constitute a guarantee of qualities and provide on bases for legal liability.
- We advise our customers to choose the PU-binder according to the type and color of the EPDM rubber granules.

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