

## POLAPLAST P10

### POLYURETHANE PRIMER ONE-COMPONENT

#### GENERAL CHARACTERISTICS

**POLAPLAST P10** is a low viscosity, moisture curing, clear, polyurethane-based, one-component primer with good long term elasticity. **POLAPLAST P10** is used as an adhesive component between the sub-floor and the base layer (wet-pour mixture of SBR and POLAPLAST P13) of KDF's running track systems.

- Designed for improving adhesion of base layer (wet-pour mixture) of KDF's running track systems on asphalt and concrete surfaces without rising humidity issues.
- Penetrates in depth.
- Ideal for old and new surfaces.

#### TECHNICAL DATA

Basis:	one-component polyurethane
Appearance:	liquid
Color:	transparent
Viscosity :	50 – 250 mPa•s at 25°C
Density :	0.9 – 1.0 Kg/Lt at 25°C
Temperature for the application and drying of the material:	10 – 40°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 sprayer equipment or brush, roller. The base layer (wet-pour mixture of SBR and **POLAPLAST P13**) of KDF's running track systems 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. **POLAPLAST P10** is applied in two or more layers as a thin film, and on the final layer, wet-pour mixture of SBR and **POLAPALST P13** can be applied on wet surface.
- The temperature should not fall below 10°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 layer (wet-pour mixture of SBR and **POLAPALST P13**) of the running track

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systems should be constructed while the final layer of **POLAPLAST P10** is still sticky.

- **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.**

## CONSUMPTION

150-250 gr/m<sup>2</sup> depending on the type and the absorbency of the underlay.

## APPLICATION TOOLS

Airless sprayer or brush or roller.

## PACKAGING

Supplied in drums of 200 Kg.

## STORAGE

12 months in unopened containers in dry places with minimum temperature 5°C and maximum temperature 30°C (out of sunlight).

## 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 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 P13

### ONE-COMPONENT POLYURETHANE BINDER

#### GENERAL CHARACTERISTICS

**POLAPLAST P13** is a solvent free, clear, moisture curing one component polyurethane binder with good long term elasticity.

**POLAPLAST P13** exhibits excellent adhesion to most rubber granulates and gives a strong performance both in terms of tensile strength and durability. It is mixed with **RECYCLED RUBBER 858** for the creation of the base layer of KDF's running track systems as well as for the base coat of playgrounds, tennis courts etc.

#### TECHNICAL DATA

Basis:	one-component polyurethane
Appearance:	liquid
Color:	transparent
Viscosity :	4.000 – 8.000 mPa•s at 25°C
Density :	1.08 – 1.18 Kg / Lt at 25°C
Temperature for the application and drying of the material:	10 – 40 °C

#### PREPARATION-APPLICATION

**Applied on dry surfaces, free of materials that might prevent bonding e.g. dust, loose particles 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 sprayer and brush. The the base layer of KDF's running track systems, wet-pour shock-absorbent mixture, should be constructed while **POLAPLAST P10 is still sticky (wet in wet procedure)**. 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. Opened drums should be used up quickly.
- Good mixing of **POLAPLAST P13** and **RECYCLED RUBBER 858 (see mixing ratio below)**. Mixing should be performed using a low revolution mixer (300-600 rpm) for 1-2 min. Stirring of the mixture should be performed thoroughly near the sides and bottom of the container in order to achieve homogeneity.
- Following, the mixture is poured on the surface and spread on in thickness from 11 to 12mm using a suitable paving machine or a hand straightedge and a flat trowel. Any small irregularities in the surface may be removed by rolling the surface using a metallic cylinder.
- The temperature should not fall below 10°C during curing of **POLAPLAST P13**.
- Curing of **POLAPLAST P13** takes place at ambient temperature by reaction with atmospheric moisture. High temperatures and moisture will shorten the cure time of the **POLAPLAST**

**P13.**

- The surface can be walked on after 12 – 18 hours at 25°C. After the surface is fully cured (depending on the temperature and humidity, the curing of the base layer mixture will take 12-48hours), follows the application of the final layers of the running track systems.
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**CONSUMPTION**

1.2kg **POLAPLAST P13** mixed with 6kg **RECYCLED RUBBER 858** in granulometry of 1-4mm.

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**RATIO**

16.7% **POLAPLAST P13** to 83.3 % **RECYCLED RUBBER 858** in granulometry of 1-4mm.

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**APPLICATION TOOLS**

A suitable paving machine or a hand straightedge and a flat trowel.

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**PACKAGING**

Supplied in drums of 220 Kg. Other size on request.

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**STORAGE**

12 months in unopened containers in dry places, out of sunlight, with minimum temperature 5°C and maximum temperature 30°C.

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**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.**

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## SBR RUBBER GRANULES 858

### GENERAL CHARACTERISTICS

It can be used in sports facilities as infill in synthetic grass with the parallel use of round sand and also as one of the components in case of cast applied wet-pour systems for playground floorings or as shock-pad for sport subfloors in athletic tracks and sports fields.

Rubber granule is derived from car and truck tires. During processing, the tires are mechanically granulated, removing all metal and synthetic fibers, 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.

### PROPERTIES

- 100% recyclable
- Long life
- Resistance to adverse weather conditions
- High shock absorbency and vibration damping
- High abrasion resistance

### PREPARATION-APPLICATION

In sports facilities and playgrounds to ensure flexibility of surface and vibration absorption.

### TECHNICAL CHARACTERISTICS

#### Granulometry 1-3mm

DENSITY:	0.48kg/cm <sup>3</sup>
SPECIFIC GRAVITY	1.20+/- .05 (Water = 1.0)
HARDNESS	60
HUMIDITY(%)	<0.65
ELASTICITY	100% - No change
RESISTANCE	113N/cm - Excellent

## 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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## POLAPLAST P22

Two component sealant coating for KDF's running track Systems

### GENERAL CHARACTERISTICS

**POLAPLAST P22** is a solvent free, two - component polyurethane sealant, with good elastic and tensile strength properties. Meets IAAF standard, it is environment - friendly, flexible with high strength.

**POLAPLAST P22** is a running track material used as sealing layer in sandwich running track systems providing good force reduction.

**POLAPLAST P22** is easy to apply and shows a good curing behavior even at low or high temperature.

### TECHNICAL DATA

Mixing Ratio	89.2 : 10.8 (By weight)
Density of mixture (25°C)	app. 1.45 – 1.55 Kg/Lt
Viscosity(25°C)	20.000 – 30.000 mPa•s at 25°C
Pot-life (25°C)	20-30 min. at 25°C
Application temperature	10 – 40 °C
Curing (25°C and %60 relative humidity)	After 24 hours
Color	Beige or Colored upon request

### 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 using vacuum cleaner and squeegees.
- **POLAPLAST P22** is applied directly on top of surfaces, on a cast-in-situ cushion base layer of wet pour (SBR rubber granules mixed with polyurethane binder) or prefabricated roll, 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.
- The interval between the application of pore sealer (first coating) and further coatings should not exceed 24 hours. In case of longer breaks, the use of **POLAPLAST P22** as bonding agent is recommended after cleaning thoroughly.
- Processing temperature of both components should be between 10-40°C. The A component should be thoroughly stirred to incorporate any slight separation, while continuing stirring the hardener (B component) should be added. Continue stirring until a homogeneous mix is obtained. After mixing A & B component, the ready to use

POLAPLAST P22, is applied upon the surface using Flat Trowel. The mixed material must be used within 20-30 minutes of mixing at 25°C. The surface must be dry and clean.

- Material coverage lies between 1.3 - 2.5 Kg/m<sup>2</sup> 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.
  - 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.
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## CONSUMPTION

1.3 - 2.5 kg/m<sup>2</sup>, depends on the porosity of the substrate.

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## APPLICATION TOOLS

Flat trowel.

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## 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.

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## 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 safety data sheet.**

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- Material coverage lies between (2.2 - 2.5 Kg/m<sup>2</sup> for a standard sandwich system and the material consumption depends on the temperature of substrate, ambience and material. Substrate temperatures must not exceed 50°C as this would liquefy the material.
- 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.
- NOTE: In cases re-coating is required, proceed in the first 24 hours after previous application without the use of primer if the surface is dry and clean.

## CONSUMPTION

2.2 - 2.5 kg/m<sup>2</sup>.

## APPLICATION TOOLS

V-notch trowel, 5.5 mm & spiked roller.

## CAUTION

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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 25%

Test item	Performance
Tensile strength (Mpa)	>4.3
Elongation at break (%)	>735
Hardness (shore A)	60-65
Specific gravity (kg/cm <sup>3</sup> )	1.45 ± 0.05

#### PREPARATION-APPLICATION

**EPDM 856** granules are basically used for wet pour colored playground floorings (granulometry 1-3mm), for flexible multipurpose outdoor courts in 10-20 mm, SYSTEM COLORFLEX, and in applications of running track system such as POLTRACK SANDWICH SYSTEM (granulometry 1-3mm) and POLTRACK SPRAYCOAT SYSTEM (granulometry 0.5-1.5 mm).

Can be used also as infill of artificial synthetic turf or in the production of epdm rubber tiles or even loose lay and around swimming pools as a flexible flooring.

#### REMARKS

- It is highly suggested (especially in hot climates like in Middle East countries) the usage of the UV-resistance top coat **POLYSPORT XP 1069**, which gives a strong UV protection and doesn't allow the change of color to occur. **POLYSPORT XP 1069** is produced in all EPDM colour range and needs to be applied with 0,4 kg/m<sup>2</sup> in two crossing layers by airless sprayer or rollers.
- In case that there is no usage of UV-resistance polyurethane aliphatic coating strong shades like blue, rose, orange, grey etc will alter.

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- 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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