

## 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

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.

## POLAPLAST P28

Specially, Modified, Two-component, Self Leveling coating for KDF'S Running track Systems  
(POLTRACK Sandwich and Full PU).

### GENERAL CHARACTERISTICS

**POLAPLAST P28** is a specially, modified, pigmented and solvent free, two component self leveling coating, with good elastic and tensile strength properties. Meets WORLD ATHLETICS (former I.A.A.F) standard, it is environment- friendly, flexible with high strength.

It's a running track material used as wear coat for sandwich running track systems providing good force reduction

**POLAPLAST P28** is easy to apply, it shows a good curing behavior even at low or high temperature.

### TECHNICAL DATA

Mixing Ratio	87.72 : 12.28 (By weight)
Density of mixture (25°C)	app. 1.65 – 1.75 Kg/Lt
Viscosity(25°C)	1.200 – 3.500 mPa•s at 25°C
Pot-life (25°C)	20-30 min.
Application temperature	10 – 40 °C
Curing (25°C and %60 relative humidity)	After 24 hours
Color	KDF colorchart

### 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 P28** is a high performance system constructed on a cast-in-situ cushion base layer of wet pour (SBR rubber granules mixed with polyurethane binder) or prefabricated roll, which is first sealed with the sealant **POLAPLAST P22** before the application of **POLAPLAST P28**, with a final toping of colored EPDM granules broadcast onto **POLAPLAST P28**.
- 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. The mixed material must be used within 20-30 minutes of mixing at 25°C. The well mixed material is applied with a V-notch trowel 5.5 mm and the parallel use of a spiked roller. Before the mixture cures, broadcast the EPDM granules

(1mm- 3mm). After full curing, use an air blower to remove the excess of the granules.

- 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 P28** 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

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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## 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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## 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.

# KDF

Sports Flooring Systems & Building Materials

**50 YEARS OF EXPERIENCE**

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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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