

EDITION: DECEMBER 2021

### 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 running track systems.

- Designed for improving adhesion of base layer (wet-pour mixture) of KDF 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 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, wetpour 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.

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 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).

# <u>CAUTION</u> 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 P28**

Specially, Modified, Two-component, Self Leveling coating for KDF Running truck Systems **POLTRACK FULL PU** 

<u>GENERAL</u> <u>CHARACTERISTICS</u> **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 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	86.96 : 13.04 (By weight)
	Density of mixture (25°C)	1.40 – 1.50 Kg/Lt
	Viscosity(25°C)	3500 – 8000 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-<br/>APPLICATIONApplied on dry surfaces without rising humidity issues, free of materials that might<br/>prevent bonding e.g. dust, loose particles, grease etc (in case of asphalt or concrete).

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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 squeegee.
- POLAPLAST P28 is a high performance system constructed on a cast-in-situ cushion base layer of wet pour mixture (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 consumption lies between 9,8 10,1 Kg/m<sup>2</sup> for a standard FULL PU system and it

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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.

**<u>CONSUMPTION</u>** 9,8 – 10,1 kg/m<sup>2</sup>.

#### APPLICATION TOOLS

V-notch trowel, 5.5 mm & spiked roller.



#### PACKAGING

Supplied in barrels and drums(set).



#### 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-

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

APPLICATION

TECHNICAL CHARACTERISTICS	DENSITY:	0.48kg/cm³
Granulometry 1-3mm	SPECIFIC GRAVITY	1.20+/05 (Water = 1.0)
	HARDNESS	60
	HUMIDITY(%)	<0.65
	ELASTICITY	100% - No change
	RESISTANCE	113N/cm - Excellent

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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**

#### (Ethylene Propylene Diene Monomer Rubber)

RUBBER GRANULES

#### GENERAL CHARACTERISTICS

Type of material: Rubber EPDM

Grain size: 0.5-1.5mm,1-3.5mm,1-4mm, EPDM dust

PERFORMANCE OF SAMPLE WITH 22% EPDM CONTENT	Test item	Performance	Standard
	Tensile strength (N/mm <sup>2</sup> )	>1	ASTM D412-6
	Elongation at break (%)	>800	ASTM D412-6
	Hardness (shore A)	65	ASTM D2240-15
	Specific gravity (kg/m³)	1.51 ± 0.05	ASTM D792-20

#### PREPARATION-APPLICATION

**EPDM 856** granules are basically used for wet pour colored playground floorings (granulometry 1-3.5mm or 1-4mm or 0.5-1.5mm), for flexible multipurpose outdoor courts in 10-20 mm, **SYSTEM COLORFLEX**, and in applications of running track system such as **POLTRACK SANDWICH SYSTEM** (granulometry 1-3.5mm broadcasted) and **POLTRACK SPRAYCOAT SYSTEM** (granulometry 0.5-1.5 mm as spray system mixed with PU resin P12).

Can be used also as infill of artificial synthetic turf or in the production of EPDM rubber tiles or EPDM rubber rolls or loose lay as EPDM Mulch.

#### **REMARKS**

 It is highly suggested (especially in hot climates like in Middle East countries) the usage of the UV-resistance topcoat 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 color range and needs to be applied with 0,4 kg/m2 in two crossing layers by airless sprayer or rollers over EPDM surfaces with PU binder.

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- In case of sprayed coated running track system, it is suggested the usage of POLYSPORT 1052 UV resistant coating where the color shade is green or blue or any other except red color which doesn't need any protection.
- Same can be applied for long term color stability also for the POLTRACK SANDWICH SYSTEM over broadcasted EPDM granules.
- In case that there is no usage of UV-resistance polyurethane aliphatic coating strong shades like blue, rose, orange, grey etc. will alter.
- 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 correct type of PU-binder (normal aromatic binder or aliphatic 2-component binder) according to the type and color of the EPDM rubber granules.

#### CERTIFICATES AND TEST REPORTS

Ask for our certificates and test reports for EPDM as:

- pAH and Elements acc. to EN 71-3
- UV resistance test (FIFA Test Method 10)
- SRI (Solar Reflectance Index)
- Weathering Resistance
- Water Resistance
- Dimensional Stability
- Temperature Resistance

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