KDF
Sports Flooring Systems & Building Materials
50 YEARS OF EXPERIENCE

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^{o}C
Density :	0.9 – 1.0 Kg/Lt at 25^{o}C
Temperature for the application and drying of the material:	10 – 40^{o}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, wet-pour mixture of SBR and **POLAPALST P13** can be applied on wet surface.
- The temperature should not fall below 10^{o} 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^2 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^{o}C and maximum temperature 30^{o}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.

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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 25ºC
Density :	1.08 – 1.18 Kg / Lt at 25ºC
Temperature for the application and drying of the material:	10 – 40 ºC

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 10ºC 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**.

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- After the surface is fully cured (depending on the temperature and humidity, the curing of the base layer mixture will take 48-72 hours), follows the application of the final layers of the running track systems.

CONSUMPTION

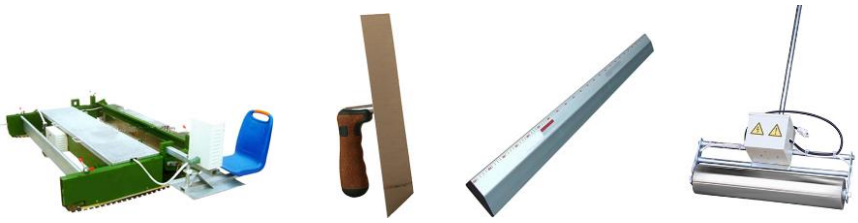
1.32kg **POLAPLAST P13** mixed with 6kg **RECYCLED RUBBER 858** in granulometry of 0.5-2.5mm.

RATIO

18.3 % **POLAPLAST P13** to 81.7% **RECYCLED RUBBER 858** in granulometry of 0.5-2.5mm.

APPLICATION TOOLS

A suitable paving machine or a hand straightedge, a flat trowel and a cylinder for compacting.



PACKAGING

Supplied in barrels of 220 Kg.

STORAGE

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

CAUTION

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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/cm³
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

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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EDITION: DECEMBER 2021

POLAPLAST P22

Two component sealant coating for KDF running truck systems

GENERAL CHARACTERISTICS

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

POLAPLAST P22 is a running track material used as sealing layer in sandwich running track system 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	88.64 : 11.36 (By weight)
Density of mixture (25°C)	1.48 – 1.58 Kg/Lt
Viscosity(25°C)	70.000 – 95.000 mPa•s at 25ºC
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 squeegee.
- **POLAPLAST P22** is applied directly on top of surfaces, on a cast-in-situ cushion base layer of wet pour mixture (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 a flat metal trowel. The mixed material

must be used within 20-30 minutes of mixing at 25ºC. The surface must be dry and clean.

- Material coverage lies between 1.3 - 2.5 Kg/m² 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.
- 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.

CONSUMPTION

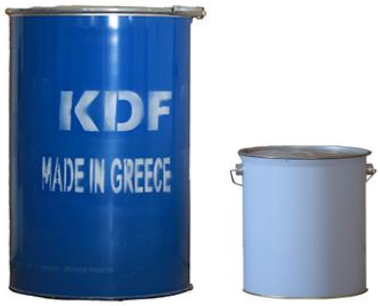
1.3 - 2.5 kg/m², depends on the porosity of the substrate.

APPLICATION TOOLS

Flat trowel.

PACKAGING

Supplied in barrels and drums(set).



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.

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.

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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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EDITION: DECEMBER 2021

POLAPLAST P12

COLORED TWO-COMPONENT POLYURETHANE SPRAY COATING

GENERAL CHARACTERISTICS

POLAPLAST P12 is a low viscous, two component polyurethane spray coating with good long term elasticity. Meets WORLD ATHLETICS standard, it ıs environment-friendly, flexible with high strength.
POLAPLAST P12 is used for the application of KDF running track system **POLTRACK SPRAYCOAT** as the spray layer mixed with EPDM rubber granules.

TECHNICAL DATA

Mixing Ratio	86.2 % : 13.8 % (By weight)
Viscosity (25°C)	900-3000 mPa
Density of mixture (25°C)	1.48-1.58 kg/l
Pot-life (25°C)	app. 30 min. at 25°C
Application temperature	10 – 40 °C
Curing (25°C and %60 relative humidity)	9-12 hours
Color	KDF PU colorchart

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.

- Application of the primer **POLAPLAST P10** (please consult the TDS of **POLAPLAST P10**).
- Application of the **BASE COAT OF POLTRACK SYSTEM** with wet-pour mixture made of **POLAPLAST P13** and **RECYCLED RUBBER 858** (please consult the TDS of **POLAPLAST P13**).
- After the surface is fully cured (the curing depends on the temperature and humidity, 48-72 h), follows the application of the final **TOP SPRAY COATING OF THE POLTRACK SYSTEM,** which is consisted by **POLAPLAST P12** and **EPDM** granules of 0.5-1.5 mm granulometry mixed on site.
- Transportation and prolonged storage of spray coatings containing more than one pigment (e.g. beige or grey) can lead to separation of pigments. To obtain a uniform color, the spray coatings should be mixed well prior to application, in order to ensure an even color. The mixing must be done thoroughly until all the **EPDM** granules are coated. The mixing time with the proper mixer will last from 1 to 2 minutes. The right spray viscosity depends on the spray equipment. Additional solvent amount (Xylene, Butylacetate) up to 2% can be added to the mixture **POLAPLAST P12** and **EPDM granules.**
- The **EPDM** granules must be dry.

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- The two components of **POLAPLAST P12** are thoroughly mixed at site. The **EPDM** granules and the **POLAPLAST P12** are mixed and applied with a suitable spraying machine. Then the **TOP SPRAY COATING OF THE POLTRACK SYSTEM** is applied in two "cross hatch" layers. The curing time of the **TOP SPRAY COATING OF THE POLTRACK SYSTEM** is 9-12 hours. After this time, the second layer can be applied.
- **The second layer has to be applied "cross hatch", i.e. perpendicular to the first layer to insure a good coverage.**
- Curing takes place at ambient temperature and is influenced by atmospheric moisture. Higher temperatures and moisture will shorten the cure time. After 3-5 days, the **TOP SPRAY COATING OF THE POLTRACK SYSTEM** is fully cured.

CONSUMPTION

- Consumption of **POLAPLAST P12**: 1.35kg/m^2.
- Consumption of mixture of the **TOP SPRAY COATING OF THE POLTRACK SYSTEM** (**POLAPLAST P12 plus EPDM 0.5-1.5mm thickness,** two layers**)**: 2.25kg/m^2.

RATIO

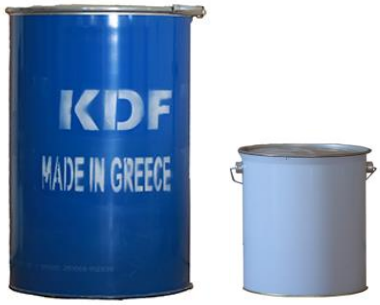
60:40 **POLAPLAST P12** : **EPDM 0.5-1.5mm** (By weight).

APPLICATION TOOLS

Spraying machine.

PACKAGING

Supplied in barrels and drums(set).



STORAGE

12 months in unopened containers in dry places with minimum temperature 5^{o}C and maximum

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temperature 30°C (out of sunlight).

CAUTION

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EDITION: APRIL 2023

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^2)	>1	ASTM D412-6
Elongation at break (%)	>800	ASTM D412-6
Hardness (shore A)	65	ASTM D2240-15
Specific gravity (kg/m^3)	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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