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**.

- 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

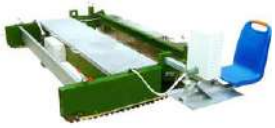
1.32kg **POLAPLAST P13** mixed with 6kg **RECYCLED RUBBER 858** in granulometry of 0.5-2.5mm.

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 5°C and maximum temperature 30°C.

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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POLAPLAST P24

Two component PU material for Equestrian rubber floorings.
Sealing Layer for Equestrian System

GENERAL CHARACTERISTICS

POLAPLAST P24 is a pigmented and solvent free thixotropic, two component polyurethane semi elastic material with tensile strength properties, environment-friendly, high strength, colorful and easy to apply, safe to construction.

POLAPLAST P24 shows excellent resistance to moisture during the curing phase and a good curing behavior even at low temperature.

TECHNICAL DATA

Mixing Ratio	88.64 : 11.36 (By weight)
Density of mixture (25°C)	1,48-1,58 Kg/l
Viscosity (25°C)	70000-95000 mPa.s
Pot-life (25°C)	30-40 min.
Application temperature	Min 10°C
Curing (25°C and %60 relative humidity)	After 24 hours
Color	Crème

PREPARATION-APPLICATION

Applied on dry surfaces, 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.

POLAPLAST P24 is used in **POLTRACK EQUINE SYSTEM**, a synthetic, seamless flooring for horse stalls, barns, paddocks etc.

POLAPLAST P24 is applied directly on top of prefabricated or in situ installed rubber granule subfloors 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 48 hours. In case of longer breaks, the use of **POLAPLAST P24** as bonding agent is recommended after cleaning thoroughly.

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- Processing temperature of both components should be between 10-40°C.
- The well mixed material is applied on the rubber base subfloor or concrete/asphalt with primer with a flat trowel 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 20ºC. The surface must be dry and clean..
- 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 50ºC 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 P24** should not be applied.
- Pore-sealed surface with **POLAPLAST P24** material can be recoated during the first 48 hours after application without the use of primer if the surface is dry and clean.
- A polyester net is placed between the 2 layers of **POLAPLAST P24**.

CONSUMPTION

1.3kg/m² for 2 layers (depends on the surface absorbance).

APPLICATION TOOLS

Flat metal trowel.

PACKAGING

Barrels.

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STORAGE

12 months in unopened containers in dry places with minimum temperature 5^{o}C and maximum temperature 30^{o}C (avoid 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 material safety data sheet.

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POLAPLAST P25

Two-component coat material for Equestrian rubber flooring system.

GENERAL CHARACTERISTICS

POLAPLAST P25 is a pigmented and solvent free thixotropic, two component polyurethane, semi-elastic material with tensile strength properties, environment friendly, high strength, colorful and easy to apply, safe to construction.

POLAPLAST P25 shows excellent resistance to moisture during the curing phase and a good curing behavior even at low temperature.

TECHNICAL DATA

Mixing Ratio	86.96 : 13.04 (By weight)
Density of mixture (25°C)	1,4-1,5 Kg/lt
Viscosity (25°C)	3500-8000 mPA s
Pot-life (23°C)	30-75 min.
Application temperature	Min 10°C
Curing (20°C and %60 relative humidity)	After 24 hours it cures.
Color	KDF colorchart

PREPARATION-APPLICATION

Applied on dry surfaces, 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.

POLAPLAST P25 is used in **POLTRACK EQUINE SYSTEM**, a synthetic, seamless flooring for horse stalls, barns, paddocks etc.

POLAPLAST P25 is applied on top of the sealing layer **POLAPLAST P24** which seals the top of prefabricated cushion or in situ installed rubber granule subfloors. 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.

POLAPLAST P25 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.

The interval between the application of pore sealer and further coatings should not exceed 48 hours.

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- Processing temperature of both components should be between 10-40°C.
- 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 20ºC.
- The well mixed material is applied with a flat trowel under pressure to tightly scrape off the material.
- Material coverage lies between 1.5kg/m^2/mm 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 P25** should not be applied.
- Sealed surface with **POLAPLAST P25** can be recoated during the first 48 hours after application without the use of primer if the surface is dry and clean.

CONSUMPTION

2.3kg/m² for 2 layers (depends on the surface absorbance).

APPLICATION TOOLS

Notched trowel. Tools should be cleaned with **PU SOLVENT** immediately after use.

PACKAGING

Barrels.

STORAGE

12 months in unopened containers in dry places with minimum temperature 5ºC and maximum temperature 30ºC (avoid 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.

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POLYSPORT 1053

UV-RESISTANT, POLYURETHANE-BASED, TWO-COMPONENT, FINISH PAINT

GENERAL CHARACTERISTICS

POLYSPORT 1053 is a polyurethane, two-component, solvent-based, finish paint for equestrian flooring systems.

- It is applied as a final, sealing layer on top of seamless rubber floorings for horse stalls, barns, paddocks.
- Provides a surface with exceptional resistance in abrasion and various chemical agents.
- It is UV-resistant and thus absolutely suitable for outdoor surfaces.

TECHNICAL DATA

Mixing Ratio (colored)	85 :15 (By weight)
Density (25°C)	1.30-1.40 kg/lt
Viscosity (25°C)	800-2.500 mPas
Curing (25°C)	9-12 hour
Application Temperature	15 – 40 °C
Color	Standard plus Colors from Ral catalog

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.
- Caution must be taken so that temperature of the support surface as well as ambient air remains above 15ºC during application and curing of the materials while relative humidity does not exceed 75%.
- 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. Airless sprayer or roller can apply **POLYSPORT 1053**.

CONSUMPTION

App.200-250 gr/m², depending on the substrate. Apply two layers at least.

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APPLICATION TOOLS

Airless sprayer or roller.

PACKAGING

5kg, 15kg set (A+B).

STORAGE

12 months in unopened containers in dry places with minimum temperature 5^{o}C and maximum temperature 30^{o}C (avoid sunlight).

REMARKS

- In case the layer of PU top coat is applied after more than 24 hours of the application of the last layer of PU pore filler then the whole surface must be sanded by a special sanding machine. After that the PU top coat can be applied.
- The second layer of **POLYSPORT 1053** has to be applied strictly within 24 hours, depending on the temperature and humidity (European conditions) **or within 3-6 hours (GCC high-temperature conditions)** in order to cover the surface swiftly and protect it from unwanted weather or other adverse conditions (sand dust, accumulated dirt or foreign matter etc.). In case the 24-hour limit (Europe) or the 3-6-hour limit (GCC) is surpassed or weather or other adverse conditions interfere between layers at any time, the surface might need sanding again to restore smoothness and cleanliness before applying subsequent layers of the aliphatic top coat.
- Working time of **POLYSPORT 1053** decreases when ambient temperature rises.
- Prolonged storage of partially used containers, containing **POLYSPORT 1053** must be avoided, as contact with atmospheric moisture could possibly cause clouding of the product.
- After hardening **POLYSPORT 1053** is completely safe for health.

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 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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