

POLAPLAST P12

COLORED TWO-COMPONENT POLYURETHANE SPRAY COATING

GENERAL CHARACTERISTICS

POLAPLAST P 12 is a low viscous, moisture curing two component polyurethane spray coating with good long term elasticity.

POLAPLAST P 12 is designed for use on elastic base layers for the “on site” production of EPDM rubber textures, non-slip surfaces for the **POLTRACK SYSTEM – running track**, school playing fields and many other sporting applications.

These surfaces are spike proof and abrasion resistant.

POLAPLAST P12 can be used also with EPDM powder as a pore sealer.

TECHNICAL DATA

Mixing Ratio	6 : 1 (By weight)
Viscosity(25°C)	900-3000 mPas
Density of mixture (25°C)	1,58-1,68 kg/lit
Pot-life (25°C)	app. 30 min.
Curing (25°C and %60 relative humidity)	After 9-12 hours it cures.
Color	Red,Green

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 the mixture made from **POLAPLAST P13** and the **RECYCLED RUBBER 858** (please consult the TDS of **POLAPLAST P13**).
- After the surface is fully cured (depending on the temperature and humidity, the curing of the **BASE COAT OF POLTRACK** will take 12-48hours), follows the application of the final **TOP SPRAY COATING OF THE POLTRACK SYSTEM**, which consists of **POLAPLAST P12** and **EPDM** granules of 0.5-1.5mm granulometry.
- 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 an agreed mixer will last from 3 to 5 minutes. The right spray viscosity depends on the spray equipment. Additional solvent amount (Xylene, Butylacetate) up to 2-3% can be added.
- The **EPDM** granules must be dry and inspected for correct granule size.
- 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. If a lower spray viscosity is desired, the mixture can be thinned with common solvents. 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 by reaction with atmospheric moisture. Higher temperatures and moisture will shorten the cure time as well as the use of accelerators. After the second layer has cured (depending on conditions, this will usually take 9-12 hours at 25 °C), it can be walked on. After 3-5 days, the **TOP SPRAY COATING OF THE POLTRACK SYSTEM** is fully cured and can be put into service.

CONSUMPTION

- Consumption of **POLAPLAST P12**: 1,35kg/m² for 2mm thickness.
- Consumption of mixture of the **TOP SPRAY COATING OF THE POLTRACK SYSTEM (POLAPLAST P12 plus EPDM 0.5-1.5mm thickness)**: 2,25kg/m² for 2mm thickness.

RATIO

1,35kg **POLAPLAST P12** with 0,90kg **EPDM 0.5-1.5mm**.

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COLORS

Colorless, black (approx. RAL 9005), leaf green (approx. RAL 6002), gentian blue ((approx. RAL 5010), oyster white (approx. RAL 1013), daffodil yellow (approx. RAL 1007), oxide red (approx. RAL 3009), pure orange (approx. RAL 2004), sky blue (approx. RAL 5015), sand yellow (approx. RAL 1002), beige (approx. RAL 1001), capri blue (approx. RAL 5019), eggshell-light ivory (approx. RAL 1015), anthracite grey (approx. RAL 7016).

APPLICATION TOOLS

Spraying machine.

PACKAGING

Supplied in barrels.

STORAGE

One year in unopened containers in cool and dry places, out of sunlight, with minimum temperature 5°C and maximum temperature 30°C. Open drums should be used quickly.

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.

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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