

POLEPOX-PR 824

TRANSPARENT, EPOXY-BASED RESIN, USED AS AN ADHESIVE COMPONENT BETWEEN CONCRETE SURFACES AND EPOXY COATINGS

GENERAL CHARACTERISTICS

POLEPOX-PR 824 is a clear, epoxy, two-component resin, which is used as an adhesive component between concrete surfaces and final epoxy coatings.

- Penetrates in depth.
- Eliminates dust from decay in old & new floorings, reinforcing their durability.
- Offers high mechanical resistance and chemical protection against acid solutions, alkalis, oil, grease etc.
- It can be easily repaired locally if necessary, but must precede grinding of the surface with a sandpaper or mosaic machine.

TECHNICAL DATA

Basis:	two-component epoxy resin
Appearance:	liquid
Colors:	transparent
Viscosity (A+B):	30-150 mPa•s at 25°C
Density (A+B):	0,88 ± 0,003 kg/l
Mixing proportion (A:B):	50:50 by weight
Application time:	approx. 1 h at 25°C
Final strength:	after 7 days at 25°C
Walkability:	after 2 days
Adhesive strength:	>3 N/mm ² (breaking of concrete)
Temperature for the application and drying of the material:	12 – 35°C

SUBSTRATE REQUIREMENTS

Concrete quality:	at least C20/25
Age:	at least 30 days
Moisture content:	below 4%

PREPARATION - APPLICATION

Applied only on dry surfaces. Protected from arising humidity and free of materials that might prevent bonding e.g. dust, loose particles, grease etc. The success in the application depends on the right preparation of the underlay and use of the material.

- Treatment of the surface with a mosaic machine, or with sandblast or rotor machine, depending on the thickness of the final coating.
- **Good, dry** cleaning of the surface from dust and residues with vacuum cleaner and use of squeegees.
- Caution must be taken so that temperature of the substrate as well as ambient air remains above 12°C during application and curing of the materials while relative environment humidity does not exceed 75%.
- Good mixing of components A (resin) & B (hardener) packed into separate containers in fixed weight proportions. 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 uniform dispersion of the hardener.
- In case of troweled surfaces when there is a need for a penetrating material, it is suggested the application of the **POLEPOX-PR 824** in two or more layers.
- Then, application of one or more layers, with **POLEPOX-PR 824**, until the surface is saturated and a film is created. If mat spots appear, then another layer is necessary. The next layer follows the other before the previous starts to dry. The number of layers vary from one surface to another depending on the absorbency.

CONSUMPTION

250-600 gr/m² in two layers depending on the type and the absorbency of the underlay.

APPLICATION TOOLS

Nappy rolls, brushes, squeegees for smooth industrial surfaces. Tools should be cleaned with solvent immediately after use.

PACKAGING

Supplied in packages of 30 Kg (two drums). Components A and B have the fixed weight proportion.

STORAGE

One year in unopened containers in dry places with minimum temperature 5°C and maximum temperature 35°C, protected from moisture and heat.

REMARKS

- Working time of **POLEPOX-PR 824** decreases when ambient temperature rises.
 - Prolonged storage of partially used containers must be avoided as contact with atmospheric moisture will result in skinning and clouding of the product.
 - **It cannot be applied in thickness for filling cracks or holes.** In this case it can only be used if mixed with fine dry sand.
 - Do not mix or apply unless surface, air and material temperatures are over 12°C during the next 24 hours.
 - Do not apply to floors if there is moisture in the subfloor drive or hydrostatic pressure. Prior precautions measurements of humidity with special device are suggested.
 - In case of cracks or holes we recommend the use of **EPOFIX-H 207**.
 - The usage of mosaic machine must precede the application of **POLEPOX-PR 824** for the creation of pores and the right penetration of the material.
 - In case old floors are going to be laid or a long period of time interferes between successive layers (twelve hours in summer or twenty four hours in winter), the surface must be thoroughly cleaned and ground prior to application of a new layer.
 - After hardening, **POLEPOX-PR 824** is completely safe for health and meets all requirements for food industries.
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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.

POLART DESIGN

GENERAL CHARACTERISTICS

POLART DESIGN is an indoor, colored epoxy-flooring system that can be customized to create unique floors. **POLART DESIGN** consists of color aggregates in fine granulometry, with epoxy semi-colored, transparent resin, with no limit for creating brilliant, vivid, one-of-a-kind floors.

Available in 24 colors, combination of 6 colors of the epoxy resins with 4 colors of aggregates.

TECHNICAL DATA

Basis:	epoxy resin
Appearance:	viscous liquid
Viscosity:	5000-10000 mPa•s at 25°C
Bulk Density:	1,37 ± 0,002 Kg/lt
Mixing proportion (A:B):	79:21 by weight
Final strength:	after 7 days at 25°C
Walkability:	after 2 days at 25°C
Adhesive strength:	>3 N/mm ² (breaking of concrete)

PREPARATION-APPLICATION

Ideal for restaurants, clubs, bars, lobbies, malls, any kind of shops and super markets, hotels and also for houses and villas.

Applied only on dry smooth, surfaces. Protected from arising humidity and free of materials that might prevent bonding e.g. dust, loose particles, grease etc. The success in the application depends on the right preparation of the underlay and use of the material.

- Treatment of the surface with a mosaic machine.
- **Good, dry** cleaning of the surface from dust and residues with vacuum cleaner and use of squeegees.
- Caution must be taken so that temperature of the substrate as well as ambient air remains above 12°C during application and curing of the materials while relative environment humidity does not exceed 75%.
- Priming of the surface with **POLEPOX-PR 824**. Consumption: 200-600 gr/m² in two or more layers on industrial, troweled floorings. 300-600gr/m² depending on the type and the absorbency of the underlay.
- After hardening of the primer (2-12 hours depending on the ambient temperature) and mixing the two components of **POLART DESIGN** pour the mixed epoxy on the floor using a flat metal trowel for the application of the mixture. Move the trowel in crescents (half-circles) to create the unique **EPOXY DESIGN(decorative system)**, patterns. Use the trowel gently and smoothly to apply the **POLART DESIGN** mix. Because of the unique appearance of **EPOXY DESIGN(decorative system)**, the film thickness and finishing techniques will have an impact on the final appearance of the floor.
- Finally, after **POLART DESIGN** has dried we can apply clear topcoat, **PLASTICOAT 850** to plasticize the whole surface.

SUBSTRATE REQUIREMENTS

Concrete quality:	at least C20/25
Age:	at least 30 days
Moisture content:	below 4%

CONSUMPTION

2-2,3 kg/m².

APPLICATION TOOLS

Flat metal trowel. Tools should be cleaned with solvent immediately after use.

STORAGE

One year in unopened containers in dry places with minimum temperature 5°C and maximum temperature 35°C, protected from moisture and heat.

REMARKS

- Application equipment, method and temperature will have a significant effect on coverage rates.
- Prolonged storage of partially used containers must be avoided as contact with atmospheric moisture will result in skinning and clouding of the product.
- **EPOXY DESIGN(decorative system)**, floors can create unique effects, but while the process is simple, some practice is required to develop the best application techniques.
- Do not mix or apply unless surface, air and material temperatures are over 12°C during the next 24 hours.
- Do not apply **POLART DESIGN** to floors if there is moisture vapor drive or hydrostatic pressure. Moisture content <4%.
- Do not mix or apply unless surface, air and material temperatures are over 12°C during the next 24 hours.
- Do not apply to floors if there is moisture in the subfloor drive or hydrostatic pressure. Prior precautions measurements of humidity with special device are suggested.
- **POLART DESIGN** will yellow upon prolonged exposure to sunlight or high-intensity artificial lights. A urethane topcoat is highly recommended for color stability.
- Although epoxy coatings are chemically resistant, the surface may stain after contact with some aggressive chemicals.

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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