KDF
Sports Flooring Systems & Building Materials
45 YEARS OF EXPERIENCE

EDITION: JANUARY 2017

# 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.

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## TECHNICAL DATA

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|---|---|
| Basis: | two-component epoxy resin |
| Appearance: | liquid |
| Colors: | transparent |
| Viscosity (A+B): | 30-150 mPa•s at 25$^{o}$C |
| Density (A+B): | 0,88 ± 0,003 kg/lt |
| Mixing proportion (A:B): | 50:50 by weight |
| Application time: | approx. 1 h at 25$^{0}$C |
| Final strength: | after 7 days at 25$^{o}$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$^{o}$C |

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## SUBSTRATE REQUIREMENTS

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

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**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$^{o}$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 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/m$^2$ 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$^{o}$C and maximum temperature 35$^{o}$C, protected from moisture and heat.

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## 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.

## 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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# POLEPOX METALLIC

## GENERAL CHARACTERISTICS

**KDF POLEPOX METALLIC** is an indoor, epoxy-flooring system that can be customized to produce unique, metallic-look, light reflective floors. **POLEPOX METALLIC** pigments are colored blends of nanoparticle pigments that are pre-measured, with no limit for creating brilliant, vivid, one-of-a-kind floors.

## TECHNICAL DATA

| | |
|---|---|
| Basis: | epoxy resin |
| Appearance: | viscous liquid |
| Viscosity: | 2000-6000 mPa•s at 25$^{o}$C |
| Bulk Density: | 1,3 ± 0,002 Kg/lt |
| Mixing proportion (A:B): | 75:25 by weight |
| Final strength: | after 7 days at 25$^{0}$C |
| Walkability: | after 2 days at 25$^{o}$C |
| Adhesive strength: | >3 N/mm$^{2}$(breaking of concrete) |
| Colors: | available in 13 colors |

## SUBSTRATE REQUIREMENTS

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

## PREPARATION-APPLICATION

Ideal for restaurants, malls, lobbies, kitchens, cafeterias, retail or commercial floors, garages and service areas, showrooms and entryways, medical facilities, arcades.

**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.
- **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$^{o}$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: 200-300 gr/m$^{2}$ in two or more layers on industrial, troweled floorings. 300-600gr/m$^{2}$ 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 **POLEPOX METALLIC**, 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 **POLEPOX METALLIC** patterns (or whatever else you might choose). Use the trowel gently and smoothly to apply the METALLIC mix. Because of the unique appearance of KDF **POLEPOX METALLIC**, the film thickness and finishing techniques will have an impact on the final appearance of the floor, with the most special effects occurring when the pigments are allowed to migrate with the film. Other special effects can be created spritzing the surface, during the application, with denatured alcohol and using compressed air, squeegees and other methods.
- Finally, after **POLEPOX METALLIC** has dried apply the clear topcoat, **PLASTICOAT 850**, if using the denatured alcohol and compressed air as method of application of POLEPOX METALLIC to cover the anti-slip affect.

**CONSUMPTION**

1,5 kg/$m^2$.

**APPLICATION TOOLS**

Flat metal trowel, special rollers and squeegee. Tools should be cleaned with solvent immediately after use.

**STORAGE**

One year in unopened containers in dry places with minimum temperature 5$^{o}$C and maximum temperature 35 $^{o}$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.
- **KDF POLEPOX METALLIC** floors can create unique effects, but despite the fact that the application process is simple, some prior practice might be needed 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 to floors if there is moisture in the subfloor drive or hydrostatic pressure. Prior precautions measurements of humidity with special device are suggested.
- **KDF POLEPOX METALLIC** 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 very 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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# PLASTICOAT 850

## GENERAL CHARACTERISTICS

**EPOXY CLEAR PLASTICOAT TWO COMPONENT (850)** is used for sealing and plasticizing decorative floorings and for the creation of 3D floorings. It is applied in thikness up to 2.5mm giving the ability to insert small thin objects like coins, colored granules, flakes, 3D images etc.

- Creates clear, glossy, easy-to-clean flooring without joints, not requiring maintenance and meeting **health standards**.
- Resistant to acid solutions, alkalis, oil, grease, wastes and mechanical stresses.

## TECHNICAL DATA

| | |
|---|---|
| Basis: | two-component epoxy resin |
| Appearance: | liquid |
| Viscosity: | 600-1200 mPa•s at 25$^{o}$C |
| Bulk Density: | 1,11 ± 0,001 kg/lt |
| Mixing proportion (A:B): | 63:37 by weight |
| Final strength: | after 7 days at 25$^{0}$C |
| Walkability: | after 2 days at 25$^{0}$C |
| Adhesive strength: | >3 N/mm$^{2}$ (breaking of concrete) |
| Colors: | clear |
| Temperature for the application and drying of the material: | 12 – 33$^{o}$C |

## SUBSTRATE REQUIREMENTS

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

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**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.

Recommended for hotels, exhibitions, showrooms and generally in areas where high aesthetic is required.

- 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%.
- For the creation of the desired pattern, on the epoxy layer such as POLEPOX METALLIC, DECOQUARTZ, DECOQUARTZ SMOOTH, POLEPOX DECOR etc, follows placement of the decorative material.
- After hardening any loose material is being removed using a vacuum cleaner, and within 24 hours, follows the application of **EPOXY PLASTICOAT (850)**.
- 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**.**
- The epoxy mixture is poured on the floor and spread using rolls or a notched trowel. The tool which to be used depends on the desirable thickness.

**CONSUMPTION**

1-1,3 kg/m$^2$/mm.

**APPLICATION TOOLS**

Rolls, notched trowels. Tools should be cleaned with solvent immediately after use.

**PACKAGING**

Set of 13kg or barrels.

**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**

- Prolonged storage of partially used containers must be avoided as contact with atmospheric moisture will result in skinning and clouding of the product.
- Do not mix or apply unless surface, air and material temperatures are over 12°C during the next 24 hours.

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- 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.

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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. Flammable before application.

**For more information consult the material safety data sheet.**

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