KDF
Sports Flooring Systems & Building Materials
45 YEARS OF EXPERIENCE

EDITION: SEPTEMBER 2013

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.
- Ideal for hospitals, for antibacterial use.

TECHNICAL DATA

Basis:	two-component epoxy resin
Appearance:	liquid
Colors:	transparent
Viscosity (A+B):	41 ± 1 mPa•s at 23^{o}C
Density (A+B):	0,933 ± 0,003 gr/cm^{3}
Mixing proportion (A:B):	50:50 by weight
Application time:	approx. 1 h at 23^{0}C
Final strength:	after 7 days at 23^{o}C
Walkability:	after 2 days
Adhesive strength:	3,70 ± 0,05 N/mm^{2}(breaking of concrete)
Temperature for the application and drying of the material:	12 – 35^{o}C

KDF - Kataskeves Dapedon LTD
e : exports@kdf.gr w : www.kdf.gr
5 Koromila str, 54645, Thessaloniki, Greece
t / f : 0030 2310 829598, t : 0030 2310 683660

SUBSTRATE REQUIREMENTS	Concrete quality:	at least C20/25
	Age:	at least 28 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.
- 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**, with dilution with 50% **EPOXY SOLVENT 132** for deeper penetration,in two layers.
- Then, application of another or more layers, with undiluted **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 dilution and 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 **EPOXY SOLVENT 132** immediately after use.

PACKAGING

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

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STORAGE

One year in unopened containers in dry places with minimum temperature 5°C and maximum temperature 28 °C.

REMARKS

- Working time of **POLEPOX-PR 824** decreases when ambient temperature rises.
- **It cannot be applied in thickness for closing cracks or holes**. In this case it can only be used if mixed with fine dry sand.
- In case of cracks or holes we recommend the use of **EPOFIX-H 207** (former EPOXY STUCCO TWO-COMPONENT) or **POLYSMOOTH 2C 803** (former TWO COMPONENT QUARZ FLOOR).
- 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.
- On surfaces with arising humidity, it is recommended to use **POLEPOX-PR 826-W** (former WATER-EPOXY PRIMER) and **POLEPOX FLOOR 828-CW** (former WATER EPOXY HIGH RESISTANT FLOOR), which produces a moisture barrier for thickness more than 2mm.
- 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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