EDITION: SEPTEMBER 2013

POLEPOX-PR 832-SF

TWO COMPONENT, EPOXY-BASED SYSTEM, USED AS AN ADHESIVE COMPONENT BETWEEN CONCRETE AND FINAL EPOXY COATINGS

GENERAL CHARACTERISTICS

POLEPOX-PR 832-SF (former EPOXY PRIMER WITHOUT SOLVENTS) is a clear, epoxy-based, two-component, fast curing resin without solvents. It is used as an adhesive component between concrete surfaces and final epoxy coatings.

- Ideal for cases where fast work is required.
- Eliminates dust and decay from 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 protection.

TECHNICAL DATA

Basis:	two-component epoxy resin
Appearance:	liquid
Colors:	transparent
Viscosity (A+B):	430,0 ± 5,0 mPa•s at 23^{o}C
Density (A+B):	1,073 ± 0,002 gr/cm^{3}
Mixing proportion (A:B):	66,7:33,3 by weight
Application time:	approx. 30min at 23^{0}C
Temperature for the application and drying of the material:	12 – 35^{o}C
Final strength:	after 7 days at 23^{o}C
Compressive strength (A+B):	55 N/mm^{2}, 7 days at 23^{0}C
(ASTM D 695)	
Flexural strength (A+B):	41 N/mm^{2}, 7 days at 23^{0}C
(Din 1164)	

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	Walkability:	after 24 hours at 23^0C
	Adhesive strength:	$3,70 \pm 0,05$ N/mm^2(breaking of concrete)

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 bottom of the container in order to achieve uniform dispersion of the hardener.
- Following, the **POLEPOX-PR 832-SF** (former EPOXY PRIMER WITHOUT SOLVENTS)is applied in two or more layers 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 varies 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 15 Kg (two drums). Components A and B have the fixed weight proportion.

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STORAGE

At least 12 months unopened containers in dry places with minimum temperature 5°C and maximum temperature 28 °C.

REMARKS

- Working time of **POLEPOX-PR 832-SF** (former EPOXY PRIMER WITHOUT SOLVENTS)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 QUARZ FLOOR).
- The usage of mosaic machine must precede the application of **POLEPOX-PR 832-SF** (former EPOXY PRIMER WITHOUT SOLVENTS)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 (twenty four hours during winter and twelve hours during summer), the surface must be thoroughly cleaned and ground prior to application of a new layer.
- On surfaces with arising humidity, the usage of **POLEPOX-PR 826-W** (former WATER-EPOXY PRIMER) is recommended.
- After hardening, **POLEPOX-PR 832-SF** (former EPOXY PRIMER WITHOUT SOLVENTS)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.

For more information consult the material safety data sheet.

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