

## POLEPOX-P 123

### GENERAL CHARACTERISTICS

**POLEPOX-P 123** is epoxy-based, anti-dust, transparent or colored, two-component resin.

- Creates colored, easy-to-clean flooring without joints.
- It does not require primer.
- Ideal for old and new surfaces, for light and medium circulation such as industrial, troweled floorings, mosaics, cement surfaces, workshops, storehouses, even for metallic surfaces or walls in food industries.
- 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. Meets all **HEALTH STANDARDS**.
- Penetrates in depth, protects and hardens old absorbent cement surfaces.
- It can be easily repaired locally if necessary.

### TECHNICAL DATA

Basis:	two-component epoxy resin
Appearance:	liquid
Colors:	Available in 6 basic colors. Light and dark grey, green, red, ochre and blue.
Viscosity (A+B):	190 ± 20 mPa•s at 23°C
Density (A+B):	1,065 ± 0,003 gr/cm <sup>3</sup>
Mixing proportion (A:B):	50:50 by weight
Gelation time:	approx. 8 hours at 23°C
Final strength:	after 7 days at 23°C
Temperature for the application and drying of the material:	12 – 35°C
Hardness according to SHORE D:	40 ± 2
Walkability:	after 2 days
Adhesive strength:	4,5 ± 0,4 N/mm <sup>2</sup> (breaking of concrete)

## SUBSTRATE REQUIREMENTS

Concrete quality:	at least C20/25
Age:	at least 28 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.

### STEEL SURFACES

- **Good** cleaning of the surface from previous coatings using shot blasting, rotary wire brushes or appropriate abrasive.
- Cleaning of the surface from grease and residues using solvent or strong detergents.

### CONCRETE SURFACES

- Grinding 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.

### APPLICATION

- 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-P 123**, with dilution with 50% **EPOXY SOLVENT 132** for deeper penetration, in one layer.
  - Then application of another layer with **POLEPOX-P 123** diluted with 25% **EPOXY SOLVENT 132**. The last layers are applied with undiluted **POLEPOX-P 123**, 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 after the previous dries within 6-12 hours depending on the ambient temperature and not more than 24 hours. The dilution and the number of layers vary from one surface to another depending on the absorbency.
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## CONSUMPTION

250-500 gr/m<sup>2</sup>, in two layers depending on the type, absorbency and roughness of the underlay

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## APPLICATION TOOLS

Nappyrolls, brushes for smooth industrial surfaces. Tools should be cleaned with **EPOXY SOLVENT 132** immediately after use.

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## 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.

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## REMARKS

- Working time of **POLEPOX-P 123** decreases when ambient temperature rises.
  - It **cannot be applied in thickness for closing cracks or holes**.
  - Working time of **POLEPOX-P 123** decreases when ambient temperature rises.
  - 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 TWO COMPONENT).
  - The usage of rotor machine must precede the application of **POLEPOX-P 123** for the creation of pores and the right penetration.
  - In case old floors are going to be laid or a long period of time interferes between successive layers, the surface must be thoroughly cleaned and ground prior to application of a new layer.
  - On surfaces with arising humidity, it is recommended the usage of **WATER-EPOXY SYSTEMS** instead of **POLEPOX-P 123**.
  - After hardening, **POLEPOX-P 123** 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.**

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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.