

## POLFLOOR-PU 807

(former POLYURETHANE TWO-COMPONENT VARNISH)

### GENERAL CHARACTERISTICS

**POLFLOOR-PU 807** is polyurethane-based, anti-dust, transparent or colored, two-component resin.

- Creates colored, easy-to-clean internal or external flooring.
- Ideal for old and new surfaces, for light and middle circulation such as industrial, troweled floorings, mosaics, cement surfaces, workshops, and storehouses. Suitable even for metallic surfaces and for painting swimming pools.
- Provides permanent protection from U.V. radiation.
- Eliminates dust and decay from old & new floorings, reinforcing their durability.
- Offers high mechanical resistance and chemical protection against acid, alkalis, oil, and grease.
- Penetrates in depth, protects and hardens old absorbent cement surfaces.
- It can be easily repaired locally if necessary.

### TECHNICAL DATA

Basis:	two-component polyurethane resin
Appearance:	liquid
Viscosity:	180 ± 3 mPa•s at 23°C
Density:	1,075 ± 0,001 gr/cm <sup>3</sup>
Mixing proportion (A:B):	75:25 by weight
Final strength:	after 7 days at 23°C
Walkability:	after 2 days
Adhesive strength:	>3 N/mm <sup>2</sup> (breaking of concrete)
Colors:	transparent, light and dark blue, light and dark gray, Indian red, ochre and after request for orders more than 300kg.
Temperature for the application and drying of the material:	12 – 35°C

## 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.

- Grinding of the surface with a mosaic machine, or sandblast and rotor machine in case of vertical surfaces.
  - **Good, dry** cleaning of the surface from dust and residues with vacuum cleaner and 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.
  - In case of troweled surfaces when there is a need for a penetrating material, it is suggested the application of the **POLFLOOR-PU 807**, with dilution with 50% **POLYURETHANE SOLVENT 133** for deeper penetration, in two layers.
  - Then application of another layer with **POLFLOOR-PU 807** diluted with 25% **POLYURETHANE SOLVENT 133**. The last layer is applied with undiluted **POLFLOOR-PU 807**, until the surface is saturated and a film is created. If mat spots appear, then another layer is necessary until the surface is shiny. 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

250-600 gr/m<sup>2</sup>, in two layers depending on the type, absorbency and roughness of the underlay.

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## APPLICATION TOOLS

Nappy rolls, brushes for smooth industrial surfaces. Tools should be cleaned with **POLYURETHANE SOLVENT 133** immediately after use.

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## PACKAGING

Supplied in packages of 5kg and 15 kg (two drums). Components A and B have the fixed weight proportion.

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## STORAGE

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

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## REMARKS

- Working time of **POLFLOOR-PU 807** decreases when ambient temperature rises.
  - It **cannot be applied in thickness for closing cracks or holes**.
  - 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 rotor machine must precede the application of **POLFLOOR-PU 807** 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.
  - After hardening **POLFLOOR-PU 807** is completely safe for health.
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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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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.