

PU PRIMER 870

TRANSPARENT, ONE COMPONENT, POLYURETHANE-BASED PRIMER, USED AS AN ADHESIVE COMPONENT FOR SAFEPOL MULTICOLOR 859

GENERAL CHARACTERISTICS

POLYURETHANE PRIMER 870 is a clear, polyurethane-based, one-component resin, which is used as an adhesive component between the sub-floor and **SAFEPOL** as well as between **SAFEPOL** and **SAFEPOL MULTICOLOR**.

- Penetrates in depth.
- Ideal for old and new surfaces.
- Improves adhesion of **SAFEPOL MULTICOLOR 859** on cement and asphalt surfaces and even on well-stepped, clean and dry gravel.

TECHNICAL DATA

Basis:	one-component polyurethane
Appearance:	liquid
Color:	transparent
Viscosity:	135 ± 5mPa•s at 23°C
Density:	1,049 ± 0,002 gr/cm ³
Temperature for the application and drying of the material:	12 – 35°C
Adhesive strength:	> 3 N/mm ² (breaking of concrete)

PREPARATION-APPLICATION

Applied on dry surfaces, free of materials that might prevent bonding e.g. dust, loose particles, grease etc (in case of asphalt or concrete). The success in the application depends on the right preparation of the underlay and use of the material.

- **Good, dry** cleaning of the surface from dust and residues.
- Priming of the surface with **POLYURETHANE PRIMER 870** in two layers. Consumption: 250-400 gr/m², depending on the absorption of the underlay. It is recommended that the second layer should be applied in sections each time, right before the application of the **SAFEPOL** mixture, in order to ensure proper adhesion.
- After application and hardening of **SAFEPOL** follows priming of the surface with **POLYURETHANE PRIMER 870** in one layer. Consumption: 200 gr/m². Similarly the primer is applied in sections of the underlay right before the application of **SAFEPOL MULTICOLOR** for the proper adhesion.

CONSUMPTION

200-400 gr/m² in two layers depending on the type and the absorbency of the underlay.

APPLICATION TOOLS

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

PACKAGING

Supplied in drums of 4 Kg.

STORAGE

8 months in unopened containers in dry and cool conditions.

REMARKS

- Working time of **POLYURETHANE PRIMER 870** decreases when ambient temperature rises.
 - Prolonged storage of partially used containers containing **POLYURETHANE PRIMER 870** must be avoided as contact with atmospheric moisture will result in skinning and clouding of the product.
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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.

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.

COLORED QUARZ SAND

GENERAL CHARACTERISTICS

COLOR SAND 860 is:

- Coloured quartz sand which is characterised by his high SiO₂ content
- Due to the absence of pyrite in the raw material, there will be no bleeding of rust
- Coloured with inorganic/organic pigments and coated with a PUR-Resin (cured)
- **COLOR SAND 860** is very light and has a wide range of colours

EXAMPLES OF APPLICATION

- Decorative floorings, stone carpets,
- Plastering (indoor/outdoor use)
- Wall plastering (indoor/outdoor use)

TYPICAL VALUES

PHYSICAL PROPERTIES

- Humidity < 1 wt-%
- Specific density 2,63 g/ml
- Bulk density 1,6 g/ml

GRAIN SIZES RANGE

Examples: 1,0 mm to 1,8 mm, 0,6 mm to 1,2 mm, 0,1 mm to 0,6 mm, 0,3 mm to 0,8 mm, 1,6 mm to 2,5 mm, 0,063 mm to 0,3 mm

* Grain size distribution on request

PACKAGING

Paper bags of 25 kg as well as Big Bags of 1.500 kg .

REMARKS

The products are natural which may be blended or modified with synthetic products. All the available data/values are approximate. The products should be checked for suitability and tolerance for the specific purposes/applications intended each time due to natural fluctuations occurring in such products.

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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 ³
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 ² (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%

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/m², in two layers depending on the type, absorbency and roughness of the underlay.

APPLICATION TOOLS

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

PACKAGING

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

STORAGE

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

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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