

POLYPRIME PU 880

POLYURETHANE-BASED, TRANSPARENT, TWO COMPONENT, PRIMER, USED AS PRIMER COMPONENT FOR POLYURETHANE-BASED INDUSTRIAL COATINGS

GENERAL CHARACTERISTICS

POLYPRIME PU 880 is a clear, polyurethane-based, two-component resin, which is used as an adhesive component between the sub-floor and all the polyurethane-based industrial coatings.

- Penetrates in depth and secure proper adhesion.
- Ideal for old and new cement-based surfaces.
- Eliminates dust from decay in old & new floorings, reinforcing their durability.

TECHNICAL DATA

Basis:	two-component polyurethane
Appearance:	liquid
Color:	light brown
Viscosity:	50-300 mPa•s at 25°C
Density:	1,045 ± 0,002 Kg/lt
Mixing proportion:	70:30 by weight
Temperature for the application and drying of the material:	12 – 35°C
Adhesive strength:	> 3 N/mm ² (breaking of concrete)

SUBSTRATE REQUIREMENTS

Concrete quality:	at least C20/25
Age:	at least 30 days
Moisture content:	below 4%

PREPARATION-APPLICATION

Applied on dry surfaces, 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.

- **Good, dry** cleaning of the surface from dust and residues.
 - Caution must be taken so that temperature of the substrate as well as ambient air remains above 12°C during application and curing of the materials while relative environment humidity does not exceed 75%.
 - 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.
 - Priming of the surface with **POLYPRIME PU 880** in two or more layers. Consumption: 200-400 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 industrial covering, in order to ensure proper adhesion.
 - Apply **POLYPRIME PU 880** 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.
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CONSUMPTION

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

APPLICATION TOOLS

Paint rollers, brushes. Tools should be cleaned with solvent immediately after use.

PACKAGING

Supplied in drums of 15 Kg and barrels of 200 Kg.

STORAGE

One year in unopened containers in dry places with minimum temperature 5°C and maximum temperature 35°C, protected from moisture and heat.

REMARKS

- Working time of **POLYPRIME PU 880** decreases when ambient temperature rises.
 - Prolonged storage of partially used containers containing **POLYPRIME PU 880** must be avoided as contact with atmospheric moisture will result in skinning and clouding of the product.
 - Do not mix or apply unless surface, air and material temperatures are over 12°C during the next 24 hours.
 - Do not apply to floors if there is moisture in the subfloor drive or hydrostatic pressure. Prior
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precautions measurements of humidity with special device are suggested.

- **It cannot be applied in thickness for filling in cracks or holes.**
- The cement subfloor must be thoroughly cleaned and smooth, moisture content below 4%.

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.

POLCOAT PU FLEX 885

FLEXIBLE, POLYURETHANE BASED, TWO-COMPONENT, SELF-LEVELING FLOOR COATING

GENERAL CHARACTERISTICS

POLCOAT PU FLEX 885 is a colored, industrial, polyurethane-based, flexible resilient floor coating suitable for indoor dry areas with light to medium traffic. Prevents dust creation and decay, creates an easy-to clean, maintenance-free seamless surface meeting health standards, protects cement-based surfaces and provides a surface with resistance to oils, fats, grease, acids, alkalis etc.

Recommended for cooling chambers, food industries, dairy factories, slaughterhouses, waste treatment plants, pharmaceutical plants, workshops, warehouses, supermarkets, labs, and in general for areas that require flexible flooring due to low temperature conditions.

Available in 17 colors.

TECHNICAL DATA

Basis:	two-component polyurethane resin
Appearance:	viscous liquid
Colors:	17 colors
Viscosity:	1500-4500 mPa•s at 25°C
Bulk Density:	1,7 ± 0,005 kg/lt
Mixing proportions:	100:16,5 by weight
Temperature for the application and drying of the material:	12 – 35°C

SUBSTRATE REQUIREMENTS

Concrete quality:	at least C20/25
Age:	at least 30 days
Moisture content:	below 4%

PREPARATION -

Applied only on dry surfaces, protected from arising humidity.

APPLICATION

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 using vacuum cleaner and squeegees.
 - Caution must be taken so that temperature of the substrate as well as ambient air remains above 12°C during application and curing of the materials while relative environment humidity does not exceed 75%.
 - Application of POLYPRIME PU 880 two-component polyurethane-based primer
 - The next day, depending on the ambient temperature, follows the application of **POLCOAT PU FLEX 885**. Components A (resin) & B (hardener) packed into separate containers in fixed weight proportions are mixed together 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. The resin component should be thoroughly stirred to incorporate any slight separation, whilst continuing stirring the contents of the hardener container should be added. Continue stirring until a homogeneous mix is obtained. The mixed material must be used within 15-20 minutes of mixing at 20°C.
 - The polyurethane mixture is poured on the floor and spread using spotted rolls or notched trowels.
 - For the creation of a completely non-slip surface, it is recommended on a still fresh layer the dredging of dry, quartz sand with a particle size 0,1-0,4 mm or 0,4-0,8 mm or 0,8-1,25 mm depending on the desired anti-slipping effect. After hardening of **ELASTOPOL PU 883**, any loose grains are being removed using a high suction vacuum cleaner. Finally a finishing layer of A+B components of **POLCOAT PU FLEX 885** is applied for the creation of an acid proof, easy to clean, non-slip surface. Consumption: 0,8-1 kg/m².
 - In order to avoid the formation of bubbles and to release any possibly entrapped air a special spiked roller should be used on the surface.
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CONSUMPTION

1-1.2 kg/m²/mm

APPLICATION TOOLS

Notched trowels, spotted rolls, and spiked roller. Tools should be cleaned with solvent immediately after use.

PACKAGING

Supplied in set of 25 kg (two drums) or barrels. Components A and B have the fixed weight proportion.

STORAGE

One year in unopened containers in dry places with minimum temperature 5°C and maximum temperature 35°C, protected from moisture and heat.

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REMARKS

- Working time of **POLCOAT PU FLEX 885** decreases when ambient temperature rises.
 - Prolonged storage of partially used containers containing **POLCOAT PU FLEX 885** must be avoided as contact with atmospheric moisture will result in skinning and clouding of the product.
 - In case old floors are going to be laid or a long period of time (more than 18 hours for summer and 36 hours for winter) interferes between successive layers, the surface must be thoroughly cleaned and grinded prior to application of a new layer.
 - Do not mix or apply unless surface, air and material temperatures are over 12°C during the next 24 hours.
 - Do not apply to floors if there is moisture in the subfloor drive or hydrostatic pressure. Prior precautions measurements of humidity with special device are suggested.
 - **POLCOAT PU FLEX 885** will yellow upon prolonged exposure to sunlight or high-intensity artificial lights. A urethane topcoat is highly recommended for color stability.
 - All surfaces should be thoroughly cleaned from dust and residues prior each application.
 - After hardening **POLCOAT PU FLEX 885** 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.

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.