

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.

MARMOR FLOOR 804

GENERAL CHARACTERISTICS

MARMOR FLOOR 804 is three-component, decorative flooring consisting of hard quartz aggregates (grain thickness 0,7-1,2mm, 2-4mm and 4-6mm or bigger) or marble and polyurethane resins or epoxy resins.

- Creates colored, high resistant, decorative flooring of high aesthetic without joints, not requiring maintenance and meeting **health standards**.
- Suitable for exterior use with the usage of polyurethane, UV resistant resins.
- For interior surfaces it is recommended the use of epoxy-based **MARMOR FLOOR**.
- Resistant to acid solutions, alkalis, oil, grease, wastes.
- Resistant to mechanical stresses, wearing from friction and chemical effects.
- It is ideal for malls, squares, hotels, shopping centers, swimming pools and generally areas where high resistant and beauty is demanded.

Combines perfectly with **MARMOR PASTE 404** for a uniform appearance for floors and walls.

TECHNICAL DATA

Basis:	two-component polyurethane resin, aggregates
Appearance:	viscous paste
Colors:	available in 16 colors
Viscosity(A+B):	200-550 mPa•s at 25°C
Density (A+B):	1 ± 0,014 Kg/lit
Bulk density (C):	1,465 ± 0,005 Kg/lit (grain thickness 2–4mm) 1,390 ± 0,090 Kg/lit (grain thickness 0,5–1,8mm)
Mixing proportion (A:B):	68:32 by weight
Mixing proportion (A+B:C):	10:90 by weight
Granulometry (C):	2000 µm – 4000 µm 4000 µm – 6000 µm
Final strength:	after 7 days at 25°C
Temperature for the application and drying of the material:	12 – 35°C after 2 days at 25°C
Walkability:	>3 N/mm ² (breaking of concrete)
Adhesive strength:	

SUBSTRATE REQUIREMENTS

Concrete quality:	at least C20/25
Age:	at least 30 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, with sandblast or rotor machine, depending on the thickness of the final coating.
- 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, dry** cleaning of the surface from dust and residues with vacuum cleaner and squeegees.
- Priming of the surface with **PU PRIMER POLYPRIME 880**. Consumption: 250-400 gr/m², depending on the absorption of the underlay.
- Following **MARMOR FLOOR 804** is applied.
- 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. Afterwards, the whole quantity of component C (quartz aggregates) is gradually added into the mixture under continuous stirring until a uniform polyurethane mortar is formed.
- The polyurethane mortar is applied on the surface using a flat trowel. The material is pressed using a rectangular stainless trowel and laid until applied to the desired thickness (from grain thickness to 1 cm).

After hardening of the material (approx. 12 hours depending on the ambient temperature) and within 24 hours, follows the application of **POLYURETHANE VARNISH 807** (consumption: 300-400 gr/m²) in order for the surface to become rigid and to avoid any loose grains.

CONSUMPTION

Suggested:
6 Kg/m², for grain thickness 0,7-1,2mm.
12 Kg/m², for grain thickness 2-4mm.

APPLICATION TOOLS

Trowels, rectangular stainless spatulas. Tools should be cleaned with solvent immediately after use.

PACKAGING

Supplied in packages of 28 kg (two drums, one bag). Components A,B and C have the fixed weight proportion.

STORAGE

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

REMARKS

- Working time of **MARMOR FLOOR 804** decreases when ambient temperature rises.
 - Prolonged storage of partially used containers 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 precautions measurements of humidity with special device are suggested.
 - In case old floors are going to be laid they must be thoroughly grinded and also the same procedure must be followed in case a long period of time interferes between successive layers, prior to application of a new layer.
 - It is recommended that tools are cleaned periodically with **POLYURETHANE SOLVENT** during application of **MARMOR FLOOR 804** for a smooth final surface.
 - After hardening, **MARMOR FLOOR 804** 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.

For more information consult the material safety data sheet.

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POLFLOOR-PU 807

GENERAL CHARACTERISTICS

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

- Creates colored, easy-to-clean indoor or outdoor floorings.
- 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:	100-450 mPa•s at 25°C
Density:	0,94 ± 0,001 kg/lit
Mixing proportion (A:B):	75:25 by weight
Final strength:	after 7 days at 25°C
Walkability:	after 2 days at 25°C
Adhesive strength:	>3 N/mm ² (breaking of concrete)
Colors:	16 colors in RAL codes.
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- 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.
 - 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.
 - 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 10-15% **POLYURETHANE SOLVENT** for deeper penetration, in one layer.
 - Then application of two or more layers with **POLFLOOR-PU 807** undiluted. The last layer is applied, 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 number of layers vary from one surface to another depending on the absorbency.
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CONSUMPTION

250-600 gr/m², in three or more layers (including the primer layer) depending on the type, absorbency and roughness of the underlay.

APPLICATION TOOLS

Nappy rolls, brushes for smooth industrial surfaces. Tools should be cleaned with solvent immediately after use.

PACKAGING

Supplied in packages of 5kg and 15 kg (two drums). 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.

REMARKS

- Working time of **POLFLOOR-PU 807** decreases when ambient temperature rises.
 - Prolonged storage of partially used containers 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 precautions measurements of humidity with special device are suggested.
 - It **cannot be applied in thickness for filling cracks or holes**.
 - In case of cracks or holes we recommend the use of **EPOFIX-H 207**. 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 grinded 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.

For more information consult the material safety data sheet.

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