

PU 100 1K MOISTURE BARRIER/PRIMER 1K

One Component Surface Primer

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PRODUCT DESCRIPTION

PU 100 1K is moisture curing, reactive polyurethane based, One component surface primer.

Usage areas

On concrete or asphalt surfaces where PU and Acrylic coating systems will be applied, PU 100 1K is used as adherence primer and dust inhibitor. In addition to floor coating systems, it can be used as a top coat for the protection of concrete screed, terrazzo, wood, artificial stone and similar surfaces against chemical corrosion, abrasion and dust.

It creates a barrier against moisture on the floor before the application of screed mixtures. With its waterproof structure and low viscosity feature, it can also be used in reinforcement works on weak soils by penetrating into concrete. Used indoors and outdoors.

ADVANTAGES

- It does not contain fillers and pigments.
- Flexible.
- It easily penetrates the capillary spaces due to its low viscosity.
- It diffuses into concrete perfectly. It is effective against negative pressure.
- It does not contain volatile organic structures.
- Easy to apply with roller and brush.
- Service time is fast and short.

TECHNICALS

Specifications	Unit	PU 100 1K
Density (25 °C)	g/cm ³	1,13
Viscosity (25°C)	mPas	400
Shelf Life	Ay	9
Pull off adhesion	mPa	3,6
Solid Weight%	%	100
Drying Time		30-40 min
Consumption 1 layer	g/m ²	130-150
App Temperature	°C	15
App Relative Humidity	%	40-90

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SURFACE PREPARATION BEFORE APPLICATION

New concrete and cement plaster need to cure for at least 21 days. After removing the mortar residue on the cured surface by light sanding or brushing, the dust on the surface should be cleaned thoroughly. Loose particles such as old paint, dirt, dust on the old concrete, mosaic, stone and cement plaster surface are removed by sandblasting, scraping and brushing. Oil and grease residues are cleaned with detergent water, if neutralization is required, the surface is wiped with 3-4% hydrochloric acid or acetic acid solution and washed with water. Care should be taken to ensure that the floor is completely dry before applying the primer. Concrete, mosaic, stone and tile surfaces that are not very shiny and have a high non-absorbent cement ratio should be roughened by light sandblasting or pickling.

APPLICATION

The product is ready to apply. Use Brush, Roller or Squeegee.

Matters to be Considered in the Application

- Be sure to apply on clean and dry surfaces.
- Oil, dust and other residual materials in the environment will prevent the application.
- Care should be taken that both the environment and the surface is not below 10 °C during the application.
- The final strength of the coating develops after 2 days.
- Wait for the drying time, the drying time may vary depending on the absorbency of the floor, humidity and temperature values of the working environment.
- Then the following layer is applied, pay attention to create a homogeneous smooth layer during applications.
- A minimum thickness of 100 microns is recommended for moisture barrier applications, a consumption of 80-150 g/m² is recommended for this application.

APPLICATION TEMPERATURE

Application should not be done below +10 C.

POT LIFE

3-4 hours at 20°C. As the ambient temperature rises and the ambient humidity increases, the product tends to dry faster.

INTERVAL TIME BETWEEN LAYERS

Between layers 3-4 hours at 20°C, and at least 24 hours for the top coat.

CURING TIME

7 days at 20°C. During this period, the paint film should not be exposed to any chemical and mechanical effects.

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THINNING AND CLEANING

The material is ready to use. Thinner UP-005 is used for cleaning purposes only.

STORAGE

PU 100 1K has a shelf life of 6 months in its unopened package, protected from moisture, water and sunlight. The product in the opened package should be used as soon as possible.

WARNINGS

It should be noted that PU 100 1K is primarily a chemical product. Irritating in contact with skin, harmful to human health if inhaled.

Security precautions

- Use protective clothing, goggles, mask and gloves.
- Avoid contact with skin.
- In case of contact with eyes, mouth, nose and skin, rinse with plenty of water for at least 15 minutes and seek medical attention if necessary.

PACKAGING

In 10, 20 kg Original Tin packages

SAFETY-RELATED DATA

PU 100 1K is non-hazardous when cured and contains no formaldehyde, asbestos, mercury, lead or chromate and derivatives. For detailed information on safe transportation, occupational health and safety, please refer to the relevant product safety data sheet (MSDS).

Note

The statements made on this technical sheet are believed to be true and accurate, and are intended to provide a guide for approved construction practices. UNİCA does not make, nor does it authorize any agent or representative to make any warranty, express or implied, concerning this material as workmanship, weather, construction, equipment utilized and other variables affecting results are all beyond our control. UNİCA warrants only that the material conforms to product specifications and any liability to the buyer or user of this product is limited to the replacement value of the product only. In no event shall UNİCA be liable for any injury, loss or damage, either direct or incidental, special or consequential, however arising, in connection with material or work performed. UNİCA shall not, in any manner, be liable for any defects, variations or change in condition in the substructure over which its products are installed.