



Uniguard PU 1K

Product Description

Uniguard PU is a one-component flexible polyurethane membrane used for long lasting waterproofing, cures by reaction with ground and air moisture which result a strong adhesion over different surfaces. It provides an excellent thermal resistance & mechanical property. it works as a Hydrophobic barrier membrane from water attacks. It is not affected by the stretching of the surface underneath and allows the surface to breathe and protect it from harsh environmental conditions

Features and Benefits

- The white color reflects much of the solar energy and so reduces the internal temperature of buildings considerably.
- Excellent thermal resistance, the product never turns soft. Max service temperature 80 C, max shock temperature 150 C.
- 500% elongation.
- Excellent mechanical properties.
- Water vapor transmission: The film breathes, preventing moisture buildup beneath the coat.

Typical use

Waterproofing and protection of:

- Gypsum and cement board.
- Tiles
- Bathrooms.
- Roofs.
- Light roofing made of metal or fibrous cement.
- Asphalt membranes.

Substrate

Concrete, fibrous cement, mosaic, cement roof tiles, old (but well adhered) acrylic and asphalt coats, wood, corroded metal, galvanized steel.



Product Data

Packaging size	25 kg
Form	Liquid
Colors	White , Grey and Charcoal Black
Solids by Weight	75-80%
Solids by Volume	79%
Density	1.40 – 1.50 g/cm ³
Hardness	65 Shore A (ISO R868)
Elongation	>500%

Application data

The product can be applied by

Roller	Recommended
Brush	Recommended
Spray	Recommended

Cleaning of painting tools

Immediate cleaning with xylene is necessary.

Film Thickness per coat

Dry film thickness	400 µm.
Theoretical spreading rate	30-35 m²/pack.

Thinner (solvent to mix with)

Uniguard Thinner PU.

Dilution (Mix Ratio)

For application by spray thin with 5-10% Uniguard Thinner PU.



Conditions during application

- Do not apply if the temperature is below 10°C and not more than 40°C. Avoid working under direct sunlight.
- Substrate temperature should be at least 3°C above the dew point
- The hardness of the surface = 15-25 Mpa.
- Relative humidity: Less Than 80 %.
- Surface humidity: Less than 10%

Drying and curing time **25 °C**

Surface (touch) dry **2 h**

**Dry to over coat, minimum @
RH%50** **6 h**

Full Cure **24 h**

Directions for use

Surface preparation

- Ensure that surface is thoroughly cleaned and free from grease, oil, dirt, salt and other containment.
- Fill surface irregularities with the necessary product.

Recommended Paint System

Prepare surface with primer

Apply Uniguard Clear Sealer SB.

Number of coats:

2 coats of Uniguard PU to achieve 800/900 µ thickness.

Topcoat:

2 coats of Uniguard PU Topcoat to increase service life.



Storage

- Store in cool, dry place in a well-sealed container away from moist air for 6 months.
- Keep away from heat, ignition sources and from children.

Caution

- Clean mixing container before use. Do not use dirty tools. Ensure that containers and tools are free from moisture.
- Do not exceed dilution ratios.
- Keep out of the reach of children.

Health and safety

Possible Hazards: It causes irritation in case of skin contact & eye contact, flush immediately with plenty of water for at least 10 minutes and seek medical advice in case it happened.