



Uniguard Xtreme PU 400

Product Description

Uniguard Xtreme PU 400 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.
- 350% 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 boards, Roofs, Light roofing made of metal or fibrous cement, Asphalt membranes.

Substrate

Concrete, fibrous cement, cement roof tiles, asphalt coats, wood, corroded metal, galvanized steel, basalt and glass.

Product Data

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| Packaging size | 16 L |
| Form | Liquid |
| Colors | White and Grey |
| Solids by Weight | 71 - 73% |
| Solids by Volume | 59% |
| Density | 1.30 – 1.35 g/cm ³ |
| Hardness ASTM D2240, 7 days | 80 Shore A |
| Elongation: ISO 37, 7 days | Up to 400% |
| Tensile Strength: ISO 37, 7 days | 4 - 5 MPa |



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| Tear Strength: ASTM D624, 7 days | 30 N/mm |
| Crack Bridging | 4 mm |
| Pull Off Adhesion ASTM D4541, 7 days | > 2.5 MPa |

Application data

The product can be applied by

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| Roller | Recommended |
| Brush | Recommended |
| Spray | Recommended |

Cleaning of painting tools

Immediate cleaning with xylene is necessary.

Film Thickness per coat

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| Dry film thickness | 1 mm – 2 mm. |
| Theoretical spreading rate | 4.5 - 9 m ² /pack. |

Thinner (solvent to mix with)

Uniguard Thinner PU.

Dilution (Mix Ratio)

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

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%

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| Drying and curing time | 25 °C |
| Surface (touch) dry | 20 h |
| Dry to over coat, @ RH%50 | 24 h |
| Full Cure | 7 days |



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

Number of coats:

2 coats of Uniguard Xtreme PU 400 to achieve 800 μ - 1mm thickness.

Topcoat:

2 coats of Uniguard Xtreme 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. Refer to Uniguard Xtreme PU 400 MSDS for more information.