



Unipoxy Primer 100 (Two-Component)

Product Description A polyamide cured epoxy resin based quick drying primer/sealer with excellent resistance to chemicals and water. It provides excellent adhesion to most substrates including concrete, wood, steel, etc. It assures excellent sealing and tight adhesion between the concrete and subsequent coat. It meets the requirements of ASTM C309 TYPE-I Moisture Retention of Concrete.

Recommended Use As a primer/sealer for use on concrete, wood floors or other substrate in areas where high anti-dust property is required such as nuclear power plant, electronic, precision equipment and chemical plant, etc.
As a form-release agent and curing compound for the protection of concrete surfaces during the construction.

Physical Properties

Finish and Color Gloss. Clear

Drying Time	Substrate temperature	5 °C/41 °F	20 °C/68 °F	30 °C/86 °F
	Set to touch	4 h	2 h	1 h
Dry through	48 h	12 h	10 h	
Fully cured	5 d	3 d	2 d	

* The actual drying time is subject to the film thickness, ventilation, humidity etc., and drying time under other temperature conditions should be checked and informed by KCC.

Solids by Volume Approx. 32 % (Determined by ISO 3233)

Theoretical Spreading Rate 6.4 m²/L in 50 μm dry film thickness on a smooth surface.

Specific Gravity Approx. 0.91 for Mixture of Base and Curing agent.

Flash Point Base (Unipoxy Primer 100 PTA) : 4 °C/39.2 °F (Closed cup)
Curing Agent (Unipoxy Primer 100 PTB) : 4 °C/39.2 °F (Closed cup)

Application Details

Surface Preparation Remove any oil grease, dirt and any other contaminants from the surface before painting by proper method such as solvent cleaning and fresh water washing, etc.
* Steel : Blast cleaning to Sa 2.5 or power tool cleaning to St3, etc.
* Concrete : Must be cured at least 28 days at 20 °C/68 °F and below 80 % R.H., and surface must be grinding or abrasive blasted to remove laitance and other impurities. Moisture content of the concrete surface must be below 6 %.

Application Conditions The surface should be completely cleaned and dried. Do not apply when relative humidity is above 85 %. The surface temperature should be at least 2.7 °C (5 °F) above dew point to prevent condensation. In confined areas, ventilate with clean air during application to assist solvent evaporation.

Mixing Base (Part A) : Curing Agent (Part B) = 1 : 1 (by volume)
Mix thoroughly together prior to application in the proportions with power agitator as delivered.

Pot Life 12 hours at 20 °C/68 °F

Thinning Thinner No. 024
Do not dilute the components separately.

Disclaimer : The information in this data sheet is believed to the best of our knowledge based on laboratory test and practical experience. However, there are many factors affecting the performance of product and the product quality itself, so we are not able to guarantee without the confirmation of the purpose of using the product from us in writing. We reserve the right to change the data without notice and you should check that this data sheet is current prior to using the product.

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Application	Spray(air or airless), Roller or Brush application.
Method	For airless spray application ; Nozzle orifice : 381 μm ~ 432 μm (0.015" ~ 0.017") Output pressure : 13.8 MPa (Airless spray data are indicative and subject to adjustment)
Typical Film Thickness	50 μm dry. Depending on the purpose and the area of use, different film thickness may be applied.
Recoating Interval	At 20 °C/68 °F, Minimum : 12 h Maximum : 4d Before overcoating, remove the oil, salt, chalking material and any other contaminants on aged coating film completely by proper cleaning method such as solvent cleaning and/or fresh water washing.
Subsequent Coat	Korepox Filler EC264(H), Korepox F.C EU254, Korepox F.C EU225(H), Korepox Color Mortar ER2233, or according to specification.
Shelf Life	12 months Store in cool, dry, well-ventilated place.
Standard Packing Unit	16 L (PTA : PTB = 8 L : 8 L).
Remarks	Protect skin and eyes from direct contact with liquid paint, and avoid prolonged breathing of solvent vapors. Use with adequate ventilation. Respiratory protection is recommended when applying this product in confined spaces or stagnant air.
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