



Korepox Shopprimer EP177 (Two-Component)

Product Description A two-component, polyamide cured epoxy primer designed for use in automatic spray plants for ship's plate or other structural steel. May be adjusted for individual shop priming plants. Approved as a Prefabrication Primer by Lloyd's Register of Shipping (LR).

Recommended Use A pretreatment primer for the protection of structural steel during the storage and fabrication period.

Physical Properties

Finish and Color Flat. Oxide Red (2275)

Drying Time	Substrate temperature	5 °C/41 °F	20 °C/68 °F	30 °C/86 °F
	Set to touch	10 min	5 min	5 min
	Dry through	30 min	10 min	10 min

* DFT : 20 μ m

* 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. 23 % (Determined by ISO 3233)

Theoretical Spreading Rate 11.50 m^2/L in 20 μ m dry film thickness on a smooth surface.

Specific Gravity Approx. 1.23 for Mixture of Base and Curing agent.

Flash Point Base (EP177 PTA) : 4 °C/39 °F (Closed cup)
Curing Agent (EP177 PTB) : 15 °C/59 °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 Sa2.5 etc.

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) = 2 : 1 (by volume)
Mix thoroughly together prior to application in the proportions with power agitator as delivered.

Pot Life 8 h at 20 °C/68 °F

Thinning Thinner No. 053
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.

Korepox Shopprimer EP177 (Two-Component)

Application Spray (Airless or Air), Roller or Brush application.

Method For airless spray application ;
Nozzle orifice : 483 μm ~ 686 μm (0.019" ~ 0.027")
Output pressure : 6.9 MPa ~ 13.8 MPa
Fan : 60 °
(Airless spray data are indicative and subject to adjustment)

Typical 20 μm dry.

Film Thickness Depending on the purpose and the area of use, different film thickness may be applied.

Recoating Interval At 20 °C/ 68 °F, Minimum : 6 h
Maximum : Free

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 According to specification.

Shelf Life 12 months.

Heat Resistance Continuous : 93 °C/200 °F (Non-immersion service)
Non-continuous : 121 °C/250 °F (Non-immersion service)

Chemical Resistance

	Acids	Alkalis	Solvents	Salts	Water
Splash & Spillage	Good	Good	Good	Excellent	Excellent
Fumes	Very Good	Very Good	Excellent	Excellent	Excellent
Immersion	Fair	Fair	Good	Excellent	Excellent

Standard Packing Unit 16 L (EP177 PTA : 10.67 L, EP177 PTB : 5.33 L)

Remarks Do not store at temperature below 5 °C/41 °F or above 40 °C/104 °F.
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.

Issued April 2008