



Korepox Primer EP174(S) (Two-Component)

Product Description A two-component, modified polyamide cured epoxy primer with high content of zinc phosphate as corrosion inhibiting pigment. It forms a hard and tough film with excellent adhesion property, abrasion resistance and impact resistance.

Recommended Use A primer for use on the ship's Topsides, general steel structures.

Physical Properties

Finish and Color Flat, Light Grey (1128), CREAM

Drying Time	Substrate temperature	5 °C/41 °F	20 °C/68 °F	30 °C/86 °F
	Set to touch	1 h	30 min	20 min
	Dry through	20 h	4 h	2.5 h

* 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.55 % (Determined by ISO 3233)

Theoretical Spreading Rate 5.5 m²/L in 100 μm dry film thickness on a smooth surface.

Specific Gravity Approx. 1.40 for Mixture of Base and Curing agent.

Flash Point Base (EP174(S) PTA) : 26 °C/79 °F (Closed cup)
Curing Agent (EP174(S)PTB) : 26 °C/79 °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, Power tool cleaning to St3, or Solvent cleaning.

It can be applied non ferrous metal surfaces without surface treatment like blast cleaning to preserve the non ferrous metals itself.

In case of hot dip galvanized steel surfaces which are shine and glossy, light sand papering or grinding is recommended to secure good adhesion to substrates.

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 and drying, to assist solvent evaporation.

Mixing Base (Part A) : Curing Agent (Part B) = 3 : 1 (by volume)
Mix thoroughly together prior to application in the proportions with power agitator as delivered.

Pot Life 3 h at 20 °C/68 °F

Preceding Coat According to specification.

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Thinning	Thinner No. 024 or Other thinner approved by KCC Do not dilute each components separately.
Application Method	Spray (Airless or Air), Roller or Brush application. For airless spray application ; Nozzle orifice : 483 μm ~ 686 μm (0.019" ~ 0.027") Output pressure : 11.7 MPa ~ 15.2 MPa Fan : 40 ° ~ 60 ° (Airless spray data are indicative and subject to adjustment)
Typical Film Thickness	100 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 : 4 h Maximum ; 30 d (for urethane topcoat) Free (for epoxy, alkyd topcoat) 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	Korethan Topcoat UT6581, Korepox Topcoat H.B. ET5740, Korepox Topcoat H.B. ET5745, Koramel Enamel LT313, or 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)
Standard Packing Unit	16 L (EP174(S) PTA : 12 L, EP174(S) PTB : 4 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.
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