



Korepox Zinc Primer EZ176 (Two-Component)

Product Description	A two-component, polyamide cure based epoxy zinc primer. It provides long term protection of steel in severely corrosive environment and has outstanding resistance to mechanical wear and tear. Thin coat (15 μm) of this primer will not affect speed and quality of steel in cutting and welding works. Approved as an excellent primer for the container by Konstandt Laboratories, Inc.
Recommended Use	As a long-life anti-corrosive primer on not permanently submerged steel, and shop primer for temporary protection of steel.

Physical Properties

Finish and Color	Flat. Metallic grey (1184)			
Drying Time	Substrate temperature	5 °C/41 °F	20 °C/68 °F	30 °C/86 °F
	Set to touch	50 min	20 min	10 min
	Dry through	12 h	6 h	4 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. 45 % (Determined by ISO 3233)			
Theoretical Spreading Rate	11.25 m^2/L in 40 μm dry film thickness on a smooth surface.			
Specific Gravity	Approx. 2.60 for Mixture of Base and Curing agent.			
Flash Point	Base (EZ176 PTA)	: 15 °C/59 °F (Closed cup)		
	Curing Agent (EZ176 PTB)	: 26 °C/79 °F (Closed cup)		

Application Details

Surface Preparation	Remove any oil, grease, dirt and any other contaminants from the surface 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.
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 (EZ176 PTA) : Curing Agent (EZ176 PTB) = 4 : 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.

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Method of Application	Spray (Airless or Air), Roller or Brush application. For airless spray application ; Nozzle orifice : 432 μm ~ 533 μm (0.017" ~ 0.021") Output pressure : 17.2 MPa Fan : 30 ° ~ 90 ° (Airless spray data are indicative and subject to adjustment) During the application, continuous agitation is required to prevent the sedimentation of zinc powder. For brush application : Use only for small areas or touch-up coating.																						
Typical Film Thickness	Shopprimer : 10 ~ 15 μm dry, Long-life primer : 20 ~ 40 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 : According to specification. 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	<table><tr><th></th><th>Acids</th><th>Alkalis</th><th>Solvents</th><th>Salts</th><th>Water</th></tr><tr><td>Splash & Spillage</td><td>Fair</td><td>Fair</td><td>Good</td><td>Excellent</td><td>Excellent</td></tr><tr><td>Fumes</td><td>Good</td><td>Good</td><td>Excellent</td><td>Excellent</td><td>Excellent</td></tr></table>						Acids	Alkalis	Solvents	Salts	Water	Splash & Spillage	Fair	Fair	Good	Excellent	Excellent	Fumes	Good	Good	Excellent	Excellent	Excellent
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Splash & Spillage	Fair	Fair	Good	Excellent	Excellent																		
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Standard Packing Unit	20 L (EZ176 PTA : 16 L, EZ176 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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