



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.
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Physical Properties

Finish and Color	Flat. Metallic grey
Specific gravity	Approx. 1.6 ~ 1.8 for Mixture of Base and Curing agent.
Solids by volume	Approx. 47 % (Determined by ISO 3233)
Spreading rate (Theoretical)	23.5 m^2/L in 20 μm dry film, 11.75 m^2/L in 40 μm dry film thickness on a smooth surface.
Flash point	Base (EZ176 -A) : 15 $^{\circ}\text{C}/59^{\circ}\text{F}$ (Closed cup) Curing Agent (EZ176 -B) : 26 $^{\circ}\text{C}/79^{\circ}\text{F}$ (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
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 : 13.5 ~ 29.2 MPa Fan : 30 $^{\circ}$ ~ 90 $^{\circ}$ (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.
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.
Thinning	Thinner No. 053, No 024 Do not dilute the components separately
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 $^{\circ}\text{C}$ (5 $^{\circ}\text{F}$) above dew point to prevent condensation. In confined areas, ventilate with clean air during application to assist solvent evaporation.
Film thickness	Shopprimer : 10 ~ 20 μm dry, Long-life primer : 35 ~ 75 μm dry. Depending on the purpose and the area of use, different film thickness may be applied.

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.			
Subsequent Coat	According to specification			
Pot life	6 h at 20 °C /68 °F			
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.			
Heat resistance temperature	Continuous : 93 °C /200 °F (Non-immersion service) Non-continuous : 121 °C /250 °F (Non-immersion service)			
Storage and package				
Shelf life	12 months			
Packing Unit	18 L (EZ176-A : 14.4 L, EZ176-B : 3.6 L)			
Remarks				
Note	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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Revision				

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.

