Korepox Zinc Rich Primer
EZ175 (Two-Component)

Product Description
A two component, polyamide cure based epoxy zinc primer with high content of total zinc.
It provides long term protection of steel in severely corrosive environment, and has outstanding resistance to mechanical tear and wear. Approved as a Prefabrication Primer by Lloyd's Register of Shipping (LR). Approved as an Excellent Primer for the Container by Constant Laboratories Inc. It can be used for fresh water tank with suitable topcoat in accordance with FDA Regulations, section 175.300.

Recommended Use
As a long-life primer for use on steel subjected to corrosive environment and mechanical hard wear.
As a shop-primer for corrosion protection from blast cleaned surface.

Physical Properties

Finish and Color
Flat. Metallic Grey (1184)

Drying Time

Substrate temperature	5 ℃/41 ℉	20 ℃/68 ℉	30 ℃/86 ℉
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. 48 % (Determined by ISO 3233)

Theoretical Spreading Rate
12.0 ㎡/L in 40 ㎛ dry film thickness on a smooth surface.

Specific Gravity
Approx. 2.60 for Mixture of Base and Curing agent.

Flash Point
Base (EZ175 PTA) : 15 ℃/59 ℉ (Closed cup)
Curing Agent (EZ175 PTB) : 26 ℃/79 ℉ (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.

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℃ (5℉) above dew point to prevent condensation. In confined areas, ventilate with clean air during application to assist solvent evaporation.

Mixing
Base (EZ175 PTA) : Curing Agent (EZ175 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 ℃/68 ℉

Thinning
Thinner No. 053

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Application Method

Spray (Airless or Air), Roller or Brush application.
For airless spray application ;

Nozzle orifice	:	432 ㎛ (0.017″)
Output pressure	:	17.2 MPa
Fan	:	30 º ~ 90 º
Thinning	:	Max. 25 % (up to 50 % when shop-priming)

(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 ~ 20 ㎛ dry.
Long-life primer	:	35 ~ 75 ㎛ dry.

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

Recoating Interval

At 20 ℃/68 ℉, Minimum : 4 h (for main primer)
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 ℃/200 ℉ (Non-immersion service)
Non-continuous	:	121 ℃/250 ℉ (Non-immersion service)

Chemical Resistance

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

Standard Packing Unit

20 L (EZ175 PTA : 16 L, EZ175 PTB : 4 L)
10 L (EZ175 PTA : 8 L, EZ175 PTB : 2 L)

Remarks

Do not store at temperature below 5 ℃/41 ℉ or above 40 ℃/104 ℉.
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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