Korepox Zinc Rich Primer EZ175 (Two-Component) DATA-SHEET

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. EZ175 is satisfies SSPC Paint 20 Type II / Level 1 as contains 90% zinc by weight in the dry film.

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

Physical Properties

Finish and Color	Flat. Metallic Grey (1184)
Specific gravity	Approx. 2.60 for Mixture of Base and Curing agent.
Solids by volume	Approx. 48 % (Determined by ISO 3233)
Spreading rate (Theoretical)	12.0 ㎡/L in 40 ㎛ dry film thickness on a smooth surface
Flash point	Base (EZ175 PTA) : 15 ℃/59 °F (Closed cup) Curing Agent (EZ175 PTB) : 26 ℃/79 °F (Closed cup)
VOC	Max. 445g/L (Determined by ISO 11890-1)

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.
Preceding coat	According to specification
Method of application	Spray (Airless or Air), Roller or Brush application. For airless spray application ; Nozzle orifice : 431.8㎛ ~ 584.2㎛ (0.017˝ ~ 0.023˝) Output pressure : 9.6MPa ~ 17.2 MPa . Fan : 30 º ~ 90 º (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 (EZ175 PTA) : Curing Agent (EZ175 PTB) = 4 : 1 (by volume) Mix thoroughly together prior to application in the proportions with power agitator as delivered.
Thinning	Thinner No. 053 * Recommended thinning rate : Max. 5% (by Volume) * Do not dilute the components separately * Recommended maximum thinning ratio is based on laboratory data. If use thinner over maximum ratio,

	please contact with TSD department.
Application conditions	The surface should be adequately clean and dry. Do not apply when relative humidity is above 85 %. The surface temperature should be at least 3℃ (5°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 ㎛ dry. Long-life primer : 35 ~ 75 ㎛ dry. Depending on the purpose and the area of use, different film thickness may be applied.
Drying time	

Substrate temperature	5 ℃/41 °F	20 ℃/68 °F	30 ℃/86 °F
Set to touch	50 min	20 min	10 min
Dry through	12 h	6 h	4 h

* These are the results from laboratory tests done under standardized conditions. Thus, actual times may be different due to environment situations such as weather, wind and humidity, etc.

Subsequent Coat	According to specification.
Pot life	8 h at 20 ℃/68 °F * Pot life can be shortened as the ambient temperature rises.
Recoating interval	At 20 ℃/68 °F, 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.
Heat resistance temperature	Continuous : 93 ℃/200 °F (Non-immersion service) Non-continuous : 121 ℃/250 °F (Non-immersion service)

Storage and package

Shelf life	EZ175PTA : 24 monthes (at 23℃) EZ175PTB : 24 monthes (at 23℃)
Packing Unit	15 L (EZ175 PTA : 12 L, EZ175 PTB : 3 L) 10 L (EZ175 PTA : 8 L, EZ175 PTB : 2 L)

Remarks

Note	Keep away from heat and ignition sources and store in a cool well-ventilated place. Do not store at temperature below 5℃/41°F or above 40℃/104°F. Protect skin and eyes from direct contact with liquid paint, and avoid prolonged breathing of solvent vapors. Use with adequate ventilation. Adequate ventilation with clean air should be maintained during application and curing to assist solvent evaporation. Respiratory protection is recommended when applying this product in confined spaces or stagnant air.
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