



A self-curing inorganic zinc primer consisting of a basic zinc silicate complex. It protects the substrate from corrosion with cathodic protection mechanism. It shows outstanding workability during application and excellent resistance against weathering and high temperatures up to 400 °C/752 °F. With special high build formulation, it can be applied up to 175 microns of D.F.T. in single coat without mud cracking. Approved for high performance on Slip&Creep by CCC&L, IZ180(N) contains 86% zinc by weight in the dry film. Conforms to SSPC Paint 20 Level 1.

Recommended use	It can be applied as single coating system for steel protection under severe corrosive conditions, including marine atmosphere and heavy duty service. Under more severe corrosive atmosphere, it is recommended as a base coat for organic and inorganic topcoats. It can be used widely in chemical plants, paper mills, refineries and coastal or salt atmospheres. Not recommended for immersion or direct exposure against acid or alkalis without suitable topcoats.
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Physical Properties	
Finish and Color	Flat. Grey (1184)
Specific gravity	Approx. 2.4 ~ 2.6 for Mixture of Base and Zinc-filler
Solids by volume	Approx. 63 %
Spreading rate (Theoretical)	8.4 m ² /L in 75 μm, dry film thickness on a smooth surface
Flash point	Base [IZ180(N)] : 13 °C/55 °F (Closed cup) Zinc filler : N/A

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. * Blast cleaning to Sa2.5 and/or Sa3 to obtain 25 ~ 75 μm blast profile. * Weld seams, burned and rusty areas after application of main inorganic zinc coating : Blast cleaning to Sa2.5 and/or Sa3 and/or power tool cleaning to St3 (Disc grinding with 16mesh sized disc sander).
Method of application	Spray (Airless or Air) application. For airless spray application : Nozzle orifice : 483 μm ~ 635 μm (0.019" ~ 0.025") Output pressure : 6.2 MPa ~ 13.8 MPa Fan : 40 ° ~ 65 ° (Airless spray data are indicative and subject to adjustment)
Mixing	Base (IZ180(N)LIQUID-1184) : Zinc Filler (for IZ180(N)LIQUID-1184) = 14.25 kg : 31.53 kg Pour the Zinc filler slowly into the Base with constant mechanical stirring as delivered proportion, and strain the mixture through a screen with 30 ~ 60 mesh.

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Thinning	Thinner No. 0608 : For normal conditions. Thinner No. 0614 : For hot (above 25 °C/77 °F) or windy conditions.			
Application conditions	The surface should be completely cleaned and dried. The surface temperature should be at least 2.7 °C (5 °F) above dew point to prevent condensation. In confined spaces, provide adequate ventilation during application and drying. Temperature during application and curing is preferably from - 18 °C/15.8 °F to 49 °C/120 °F. This limit applies to the temperature of the surface and that of paints itself.			
Film thickness	75 μm dry.			
Drying time	Substrate temperature	5°C/41°F	20°C/68°F	30°C/86°F
	Set to touch	4 h	30 minutes	30 minutes
	Fully cured	30 h	24h	20 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	Korepox, Kovinyl, Korabor system, or other proper top coats can be applied as topcoat of Galvany IZ180(N). In some cases, a "mist coat" is required to prevent application bubbling.			
Pot life	8 h at 20 °C/68 °F and R.H. 65 %			
Recoating interval	At 20 °C/68 °F and above R.H. 65 %, Minimum : 24 h Maximum : Free Before overcoating after exposure in contaminated environment, clean the surface with suitable cleaning methods such as high pressure fresh water hosing, solvent cleaning, etc., and allow to dry thoroughly			
Heat resistance temperature	Continuous : 400 °C / 752 °F (Non-immersion service) Non-continuous : 427 °C / 800 °F (Non-immersion service)			
Storage and package				
Packing Unit	Base (IZ180(N)LIQUID-1184): 14.25 kg Zinc filler (for IZ180(N)LIQUID-1184) : 31.53 kg			
Remarks				
Note	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 during application in confined spaces or stagnant air.			
1'st issue	2012-04-01			
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.

