

Galvany IZ180(N) (Two-Component)



Product Description	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.
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.

Physical Properties

Finish and Color	Flat. Grey (1184)
Drying Time	At 20 °C/68 °F, 65 % R.H., Set to touch : 20 ~ 30 min (Tolerates light showers after 1 h) Fully cured : 24 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. 63 %
Theoretical Spreading Rate	10.5 m ² /L in 60 μm, dry film thickness on a smooth surface
Specific Gravity	Approx. 2.5 for Mixture of Base and Zinc-filler
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).
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.
Mixing	Base : Zinc Filler = 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.

This data is believed to be accurated but without any obligation

Please consult with our technical department for detail information . .

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Pot Life 8 h at 20 °C/68 °F and R.H. 65 %.

Thinning Thinner No. 0608 : For normal conditions.
Thinner No. 0614 : For hot (above 25 °C/77 °F) or windy conditions.

Application Method 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)

Typical Film Thickness 75 μm dry.

Recoating Interval (With Others) 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.

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.

Shelf Life 12 months

Heat Resistance Continuous : 400 °C / 752 °F (Non-immersion service)
Non-continuous : 427 °C / 800 °F (Non-immersion service)

Chemical Resistance

	Acids	Alkalies	Solvents	Salts	Water
Splash & Spillage	Fair	Fair	Excellent	Excellent	Excellent
Fumes	Good	Good	Excellent	Excellent	Excellent
Immersion	NR	NR	Excellent	Excellent	Excellent

*NR : Not Recommended

Standard Packing Unit Base : 14.25 kg
Zinc filler : 31.53 kg

Remarks 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.

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