Two-Package Type Epoxy Resin Paint



EDOGAWA GOSEI CO., LTD.

Product Summary

Epolite is a two-package type anti-corrosive primer designed to address the two most serious threats to the substrate: corrosion and cutting oil. The cured film displays unparalleled resistance to cutting oil, along with excellent adhesion, anti-corrosive property, and chemical as well as water resistance.

• Functionality

- Excellent Adhesion
 It provides excellent adhesion to various kinds of metals including
 aluminum and stainless steel.
- Superior Anti-Corrosive Property The product contains no harmful substances such as chromium and uses instead the low toxic anti-corrosive pigments, following our commitment to being "green."
- Unparalleled Resistance to Cutting Oil Its unparalleled chemical resistance is made possible by the threedimensional crosslink using polyamine and the uniquely modified epoxy resin used in the base.

• Composition

Base:	specially modified epoxy resin	Curing agent:	modified polyamine
	anti-corrosive pigments		organic solvent
	color pigments		
	extender pigments		
	additives		
	organic solvent		

Intended Use

Primer for steel, aluminum, stainless, electrogalvanized steel, and other metals.

• Use and Application

- Pretreatment Degrease and de-rust the substrate prior to application of the paint.
- Agitation Provide sufficient agitation before use to disperse the sediment.
- Mixing

Base Resin : Hardener : Thinner =4 : 1 : $1 \sim 1.5$ (Ratio by weight). Viscosity is adjust to Iwata-cup(NK-2cup) 10 ± 2 seconds(20° C) Use our Thinner 3200 SW (for spring and autumn), S (summer), or W (winter) depending on the season.

*Mixing ratio of each color is the same.

• Pot Life

This coating has limited pot life of 5 hours after mixing with curing agent.

• Spray Pressure

2-3kg/cm² for small objects and 4-5kg/cm² for big objects.

Setting

Leave the primer at ambient temperature for a minimum of 30 minutes before top-coating.

• Drying

Set-to-touch	5 min. at 20°C
Dry-hard	6-8 hrs. at 20°C
Forced-drying	30 mins. at 60-120°C

Leave it to dry for more than 7 days for maximum film properties.

- Drying Conditions After Top-Coating Follow the drying conditions for the top coat paint.
- Film Thickness and Application Amount Standard film thickness: 30-40µm Application amount (after dilution): approximately 170g/m²

• Film Performance

Test Item	Test Condition		Result
	Cross-cut test	SPCC-SD steel plate	100/100
Adhesion	Cross-cut test	Aluminum plate 1050P	100/100
Adhesion	Cross-cut test	SUS304 stainless plate	100/100
	Cross-cut test	Bonderized steel plate	100/100
Drawing Test	Drawing test equipment	10mmφ x 500g	0
Erichsen Test	20mmφ extrusion	over 5mm	0
Chip Resistance	Dupont impact tester	1/4 inch 500g 50cm	0
Bend Test	4mmφ 1 sec./180°		0
Acid Resistance	Immersed in 5% HCI solution for 200 hours		ОК
Alkaline Resistance	Immersed in 5% NaOH solution for 200 hours		ОК

Water Resistance	Immersed in tap water at ambient temperature for 6 months	ОК
Oil Resistance	Immersed in water soluble cutting oil at ambient temperature for 6 months	ОК
Solvent Resistance	Rub 30 times back and forth with a cloth soaked in lacquer thinner	ОК
Salt Spray Test	Salt spray tester 5% NaCl solution (98% humidity, 168 hours)	1mm≧
Boiling Water Resistance	Immersed in boiling water at 98°C for 1 hour	ОК
Finish Coat	Two-package epoxy resin paint	100/100
Compatibility	Two-package urethane resin paint	100/100

* In all the tests, Epolite Base Resin 505 Blue was applied to SPCC steel plates and dried at ambient temperature for one week.

○ <u>Color</u>

Base Resin 301 Gray	16kg	
Base Resin 802 Black	16kg	
549-001 Makino Snow White	16kg	
Epolite Hardener	4kg	
*About special color please to inquiry.		

• Precautions

- Read and follow SDS before use.
- The two-package type paint has limited pot life after mixing. Use within pot life.
- Mixing with other company's thinner may cause the pigments to separate from resin and compromise its performance.
- Although the cured film has the excellent chemical resistance, the uncured coating remains very active on the surface. Use caution to avoid discoloration upon exposure to acid or alkaline component (pretreatment solution for metal plates, etc) in dry ambient air.
- The coating may show weaker mutual adhesion depending on the paint used. Make sure to check the composition of the paint prior to application.