

TYPE

The coating is based on glass flake and aliphatic amine cured epoxy resin with anticorrosion pigment.

USES

Use for ship, bridges, tanks, pipelines, petrochemical plants and steel structures.

CHARACTERISTICS

- Sturdy film, and with excellent abrasion resistance and suitable to loading grain.
- Excellent resistance to oil and chemicals, anti-corrosion, and water resistance.
- Special formulation of anti-corrosion, both in excellent inhibitory and hiding performance of corrosive protection for steel.
- Can be applied to variety types of coating, or be coated a variety type of coating, for the best maintenance coating.
- In order to have an excellent anti-corrosion performance, use CONTIZINC 7770 or CONTIZNC 2701 as a primer and exceptional weather resistance top coat.
- Low VOC and will meet environmental regulations in most areas.

PRACTICAL INFORMATION

Color Gray, and Brown

Gloss Level Semi-gloss

VOC Values Below 0.68 lbs/gal (80 g/l)

Volume Solids 85±3%

Theoretical Coverage 1 mils: 1352 ft²/gal (125.6 m²/l)

4 mils: 338 ft²/gal (31.4 m²/l)

Typical Thickness DFT: 4~10 mils WFT: 4.7~11.8 mils

Service Temperature Continuous: 300°F (149°C); Non-Continuous: 450°F (232°C)

Preceding Coats Inorganic Zinc Rich Primer, Epoxy Zinc Rich Primer, Epoxy

Alloy Primer, One Pack Polyurethane Maintenance Primer,

and Epoxy Aluminum Tripolyphosphate Primer.

Subsequent Coats Epoxy, Polyurethane, and Fluorocarbon resin system.

Repair Self-Repairing

SUBSTRATES & SURFACE PREPARATION

General

Remove dirt, dust, oil and all other contaminants that could interfere with adhesion of the coating. Surfaces must be clean and dry. Moisture, grease, sludge, dust, corrosive salt must be

thoroughly cleaned from substrate.

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SUBSTRATES & SURFACE PREPARATION

Steel Surface preparation standards can use SSPC-

SP10 or Sa2 1/2 (ISO 8501-1:2007).

Stainless & Galvanized CONTIPOXY 1690GF should always be applied

over a recommended anti-corrosive coating scheme. The primer surface should be dry and free from all contamination and CONTIPOXY 1690GF must be applied within the overcoating intervals specified (consult the relevant product

data sheet).

Areas of Breakdown and Damage Should be prepared to the specified standard (Sa2

1/2 (ISO 8501-1:2007) or SSPC-SP6, Abrasive Blasting or SSPC-SP11, Power Tool Cleaning) and

patch primed prior to the application of

CONTIPOXY 1690GF.

PERFORMANCE DATA

Test Method	System	Results
		No cracking and peeling in
ACTM DECOM OC	Diagram Charl	appearance
ASTM D5894-96	Blasted Steel	Original adhesive
ASTM D4541-09	1 ct. IZ-01 (75 microns)	strength:8.0 MPa
Type V Cyclic Corrosive	1 ct. 1690GF (150 microns)	Percentage of adhesive
Test	1 ct. UP-450 (60 microns)	strength retention after
		cyclic corrosive test:
		69.6% (5.57 MPa)
ASTM G8-96 B	Blasted Steel	
Test for Cathodic	1 ct. 1027HZ (100 microns)	No blistering, cracking and
Disbonding of Pipeline	2 cts. 1690GF (130 microns)	rusting
Coatings (60 days)	1 ct. UP-450F (60 microns)	
	Blasted Steel	
ACTM D117 11 Calt Caray	1 ct. 1027HZ (100 microns)	No blistering, cracking and
ASTM B117-11 Salt Spray	2 cts. 1690GF (130 microns)	rusting after 2000 hours
	1 ct. UP-450F (60 microns)	
ASTM F963 Soluble	1 ct. 1690GF	N.d. (Sb, As, Cd, Cr, Pb,
Heavy Metals Test	1 Ct. 1090GF	Hg, Ba, Se)

CERTIFICATION

Norsok M-501-04: Report number KV-12-08801XA-1 (SGS Taiwan Ltd.)

MIXING & THINNING

Mixing

Mix base and hardener according to the mixing ratio and stir thoroughly.

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MIXING & THINNING

Thinning Use Epoxy Thinner (CONTITHINNER 12) to thin up 5-10%.

Mixing Ratio Base: Hardener = 1: 1 (by weight); 1: 1(by volume)

Pot Life 4 hours at 77° F (mixture, 25° C)

APPLICATION EQUIPMENT GUIDELINES

Spray Application Avoid applying the paint in rainy weather or the relative humidity

exceed 85%, particularly, a wet surface must be thoroughly dried. All equipment must be cleaned immediately after use. The usage of thinner will increase or decrease depending on the temperature of the coated surface, if the temperature is decreased the amount of thinner may have to be increased.

Airless Spray Pump ratio 33: 1 or greater

Tip size: 0.021"~ 0.029" Output PSI: 2800~4000

Brush Application by brush is applicable. For special condition please

consult with product manufacturer.

Roller Application by roller is applicable. For special condition please

consult with product manufacturer.

APPLICATION CONDITIONS

Condition	Coating	Surface	Environment	Humidity	
Minimum	50°F (10°ℂ)	50 °F (10°℃)	50 °F (10℃)	30%	
Maximum	95°F (35°C)	131°F (55°C)	113°F (45°C)	85%	

Industry standards are for substrate temperatures to be $5^{\circ}F$ (3°C) above the dew point. The product simply requires the substrate temperature to be above the dew point.

CURING SCHEDULE

Surface Temp. (50% Relative Humidity)	Touch Dry	Hard Dry	Dry to Handle
50°F (10°C)	16 hours	24 hours	7 days
59 °F (15 °C)	8 hours	16 hours	7 days
77 °F (25 °ℂ)	4 hours	8 hours	7 days
95°F (35°C)	3 hours	6 hours	5 days

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OVERCOATING INTERVAL

Surface Temp. (50% Relative Humidity)	Minimum	Maximum (No direct exposure to sunlight)	Maximum (Directly exposure to sunlight)
68 °F (20 °C)	2.5 hours	2 months	1 months
104°F (40°C)	1 hours	14 days	10 days

CLEANER & SAFETY

Cleaner Use Epoxy Thinner (CONTITHINNER 12) to clean. In case of

spillage, absorb and dispose of in accordance with local

applicable regulations.

Safety Ventilation Please read and follow all caution statements on this product

data sheet and MSDS for this product.

Proper ventilation and protective measures must be provided

during application and drying to keep solvent vapor

concentrations within safe limits and to protect against toxic or

oxygen deficient hazards.

PACKAGE, HANDLING & STORAGE

Shelf Life Part A: Minimum 2 years under normal storage

conditions

Part B: Minimum 1 years under normal storage

conditions

Shipping Weight 1 Gallon Kit – Part A: 5.51 lbs (2.5 kg)

Part B: 5.51 lbs (2.5 kg)

5 Gallon Kit – Part A: 27.55 lbs (12.5 kg)

Part B: 27.55 lbs (12.5 kg)

Storage Temperature &Humidity 41-95°F (5-35°C)

0-90% Relative Humidity

Flash Point Above $77^{\circ}F$ (25°C)

Store in cool ventilated place, do not exposed to the sun in outdoor to avoid affecting the quality.

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