

TYPE

The coating is based on amine cured epoxy resin with glass flake anti-corrosion pigment.

USES

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

CHARACTERISTICS

- Sturdy film, 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 and top coated with a wide variety of coatings, depending on the service.
- In order to have an excellent anti-corrosion performance, use CONTIZINC 7770 or CONTIZINC 2701 as a primer and exceptional weather resistance top coat.

PRACTICAL INFORMATION

Color Gray, and Brown

Gloss Level Semi-gloss

VOC Values 2.39 lbs/gal (281 g/l), use CONTITHINNER 12 thinner to thin

up 5% (2.77 lbs/gal = 326 g/l) or 10% (3.10 lbs./gal=365 g/l)

Volume Solids 78±2%

Theoretical Coverage 1 mils: 1290 ft²/gal (120 m²/l)

4 mils: 322.5 ft²/gal (30 m²/l)

Typical Thickness DFT: 4~8 mils WFT: 5.1~10.3 mils

Service Temperature Continuous: 302°F (90°C) Non-Continuous: 356°F (120°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).

Primed Surfaces CONTIPOXY 1699 should always be applied

over a recommended anti-corrosive coating scheme. The primer surface should be dry and free from all contamination and CONTIPOXY 1699 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 1699.

PERFORMANCE DATA

| Test Method | System | Results |
|--|--|---|
| ISO 4628-6-07 ISO 4624-02 Cyclic Corrosive Test | Blasted Steel 1 ct. IZ-01 (75 microns) 1 ct. EP-999GF (150 microns) 1 ct. UP-450 (60 microns) | Chalking rating: 0.5 Original adhesive strength: 5.2 MPa Percentage of adhesive strength retention after cyclic corrosive test: 62.9% (3.27 MPa) |
| ASTM D5894-96 ASTM D4541-09 Type V Cyclic Corrosive Test | Blasted Steel 1 ct. IZ-01 (75 microns) 1 ct. EP-999GF (150 microns) 1 ct. UP-450 (60 microns) | No cracking and peeling in appearance. Original adhesive strength: 8.0 MPa Percentage of adhesive strength retention after cyclic corrosive test: 69.6% (5.57 MPa). |
| ASTM D5894-96 ASTM D4541-09 Type V Cyclic Corrosive Test | Blasted Steel 1 ct. PU-700 (100 microns) 1 ct. EP-999GF (150 microns) 1 ct. UP-450F (60 microns) | No cracking and peeling in appearance Original adhesive strength: 8.0 MPa Percentage of adhesive strength retention after cyclic corrosive test: 97% (7.76 MPa) |

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PERFORMANCE DATA

| Test Method | System | Results | |
|----------------------------|-------------------------------|------------------------------|--|
| ASTM G8-96 B | Blasted Steel | | |
| Cathodic Disbonding of | 1 ct. 1027HZ (100 microns) | No blistering, cracking | |
| Pipeline Coatings (60 | 2 cts. EP-999GF (130 microns) | and rusting | |
| days) | 1 ct. UP-450F (60 microns) | | |
| | Blasted Steel | No bliotoring prodeins | |
| ASTM B117-11 Salt | 1 ct. 1027HZ (100 microns) | No blistering, cracking | |
| Spray | 2 cts. EP-999GF (130 microns) | and rusting after 2000 hours | |
| | 1 ct. UP-450F (60 microns) | nouis | |
| ASTM G8-96 B | Blasted Steel | | |
| Cathodic Disbonding of | 1 ct. IZ-01R (60 microns) | No blistering, cracking | |
| Pipeline Coatings (60 | 1 ct. PU-700 (60 microns) | and rusting | |
| , | 2 cts. EP-999GF (150 microns) | and rusting | |
| days) | 1 ct. No.54HB (60 microns) | | |
| | Blasted Steel | | |
| ASTM B117-11 Salt Spray | 1 ct. IZ-01R (60 microns) | No blistering, cracking | |
| | 1 ct. PU-700 (60 microns) | and rusting after 2000 | |
| | 2 cts. EP-999GF (150 microns) | hours | |
| | 1 ct. No.54HB (60 microns) | | |
| ASTM F963 Heavy | 1 ct. EP-999GF | N.d. (Sb · As · Cd · Cr · | |
| Metals Test | I Cl. EF-999GF | Pb · Hg · Ba · Se) | |

Test reports and additional data available upon written request.

CERTIFICATION

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

MIXING & THINNING

Mix base and hardener according to the mixing ratio and stir

thoroughly.

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

Mixing Ratio Base: Hardener = 80: 20 (by weight)

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.

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APPLICATION EQUIPMENT GUIDELINES

Airless Spray Pump ratio 45:1 or greater

Tip size: 0.025"~ 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 |

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.

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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: 9.92 lbs (4.5 kg)

Part B: 1.98 lbs (0.9 kg)

5 Gallon Kit – Part A: 49.6 lbs (22.5 kg)

Part B: 9.92 lbs (4.5 kg)

Storage Temperature & Humidity $41-95^{\circ}F$ (5-35°C)

0-90% Relative Humidity

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

Storage Store in cool ventilated place, do not exposed to

the sun in outdoor to avoid affecting the quality.

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