

CONTIPOXY 1297GF (EP-999HGF) HIGH SOLIDS GLASS FLAKE EPOXY COATING

TYPE

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

USES

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

CHARACTERISTICS

- Have a hard film.
- Excellent abrasion resistance and suitable to loading grain.
- Excellent anticorrosion, water, oils and chemical 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 and CONTIZINC 2701 as a primer and exceptional weather resistance top coat.

PRACTICAL INFORMATION

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| Color | Gray, Brown |
| Gloss Level | Semi-gloss |
| VOC Values | 1.45 lbs/gal (170 g/l), use CONTITHINNER 12 to thin up 5% (1.87lbs/gal=220 g/l) or 10% (2.38 lbs/gal=280 g/l) |
| Volume Solids | Above 83% |
| Theoretical Coverage | 1 mils : 1352 ft ² /gal (125.6 m ² /l) 4 mils : 338 ft ² /gal (31.4 m ² /l) |
| Typical Thickness | DFT : 4~10 mils WFT : 4.8~12 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 |

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SUBSTRATES & SURFACE PREPARATION

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| 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. |
| Steel | Surface preparation standards can use SSPC-SP10 or Sa2 1/2 (ISO 8501-1:2007). |
| Primed Surfaces | CONTIPOXY 1297GF should always be applied over a recommended anti-corrosive coating scheme. The primer surface should be dry and free from all contamination and CONTIPOXY1297GF 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 1297GF. |

PERFORMANCE DATA

| Test Method | System | Results |
|---|--|---|
| ASTM D5894-96 ASTM D4541-09 Type V Cyclic Corrosive Test | Blasted Steel 1 ct. IZ-01 (75 microns) 1 ct. EP-999 (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 G8-96 B Cathodic Disbonding of Pipeline Coatings (60 days) | Blasted Steel 1 ct. 1027HZ (100 microns) 2 cts. EP-999GF (130 microns) 1 ct. UP-450F (60 microns) | No blistering, cracking and rusting |
| ASTM B117-11 Salt Spray | Blasted Steel 1 ct. 1027HZ (100 microns) 2 cts. EP-999GF (130 microns) 1 ct. UP-450F (60 microns) | No blistering, cracking and rusting after 2000 hours |
| ASTM F963 Soluble Heavy Metals Test | 1 ct. EP-999 | N.d. (Sb 、 As 、 Cd 、 Cr 、 Pb 、 Hg 、 Ba 、 Se) |

Test reports and additional data available upon written request.

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CERTIFICATION

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

MIXING & THINNING

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|---------------------|---|
| Mixing | 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 = 1 : 1(by volume) |
| Pot Life | 4 hours at 77°F (mixture, 25°C) |

APPLICATION EQUIPMENT GUIDELINES

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| 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°C) | 50°F (10°C) | 30% |
| Maximum | 113°F (45°C) | 122°F (50°C) | 113°F (45°C) | 85% |

Industry standards are for substrate temperatures to be 5°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 |
|--|---------|---------|
| 50°F (10°C) | 2 days | 14 days |
| 77°F (25°C) | 8 hours | 7 days |
| 122°F (50°C) | 2 hours | 3 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 2 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 174°F (79°C)(After mixed)

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