

CONTIPOXY 1288GF

HIGH SOLIDS EPOXY GLASS FLAKE COATING

TYPE

The high solids coating is based on epoxy resin with anti-corrosion pigment and glass flakes.

USES

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

CHARACTERISTICS

- Sturdy film, and excellent abrasion resistance.
- Excellent anti-corrosion, 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 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 and CONTIZINC 2701 as a primer and exceptional weather resistance top coat.

PRACTICAL INFORMATION

Color	Gray, and Brown
Gloss Level	Semi-gloss
VOC Values	1.11 lbs/gal (99 g/l); use CONTITHINNER 12 thinner to thin up 5% (1.53 lbs/gal=144 g/l)
Volume Solids	91±2%
Theoretical Coverage	1 mils : 1482.4 ft ² /gal (137.6 m ² /l) 4 mils : 370.6 ft ² /gal (34.4 m ² /l)
Typical Thickness	DFT : 4~8 mils WFT : 4.3~8.7 mils
Service Temperature	Continuous: 302°F (150°C); Non-Continuous: 356°F (180°C)
Preceding Coats	IZ-01 / IZ-01HS Inorganic Zinc Rich Primer, No.1006 Epoxy Zinc Rich Primer, No.1020 Epoxy Alloy Primer, No.700 One Pack Polyurethane Maintenance Primer, No.1075 Epoxy Aluminum Tripolyphosphate Primer.
Subsequent Coats	Epoxy, Polyurethane (UP-450 and UP-04), and Fluorocarbon(5400F) 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).

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 1288GF.

PERFORMANCE DATA

Test Method	System	Results
ISO 4624(2002) Pull-Off Adhesion (MPa)	Blasted Steel 1 ct. EP-988 (500 microns)	11 MPa
ASTM D4060-14 Abrasion Resistance (mg)	Blasted Steel 1 ct. EP-988 (500 microns)	26.4 mg
ASTM D2794-93(2010) Impact Resistance	Blasted Steel 1 ct. EP-988 (500 microns)	There are no cracking and peeling in appearance
ASTM D2370-98 Tensile Strength (MPa)	Blasted Steel 1 ct. EP-988 (900 microns)	13.8 MPa
ASTM D2370-98 Elongation at break (%)	Blasted Steel 1 ct. EP-988 (900 microns)	2%
ISO 7253 (2002) Salt Spray (6000h)	Blasted Steel 1 ct. EP-988 (450 microns)	No film defects and an average of 3.5 mm rust creep at the scribe.
ISO 2812-1 (2007) Immersion (30% H ₂ SO ₄ ,336h)	Blasted Steel 1 ct. EP-988 (500 microns)	There is no blistering, cracking, flaking in appearance by visual check.
ISO 2812-1 (2007) Immersion (30% NaOH ,2160h)	Blasted Steel 1 ct. EP-988 (500 microns)	There is no blistering, cracking, flaking in appearance by visual check.
ISO 2812-2 (2007) Immersion (40±1°C water, 8760 hours)	Blasted Steel 1 ct. EP-988 (500 microns)	There is no blistering, rusting, cracking, flaking in appearance by visual check.
ISO 6270-1 Water Condensation (8760h)	Blasted Steel 1 ct. EP-988 (500 microns)	There is no blistering, rusting, cracking, flaking in appearance by visual check.
ISO 20340 (2009) Ageing test (4200 h)	Blasted Steel 1 ct. IZ-01HS (60 microns) 1 ct. EP-988 (200 microns) 1 ct. UP-450 (60 microns)	Pass
ASTM F963 Soluble Heavy Metals Test	1 ct. EP-988	N.d. (Sb 、As 、Cd 、Cr 、Pb 、Hg 、Ba 、Se)

Test reports and additional data available upon written request.

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CERTIFICATION

- ISO 20340 C5-M: certificate number TAK000004T (DNV GL)
- ISO 20340 C5-M: certificate number TAK000004N (DNV GL)
- Norsok M-501 No.7A: certificate number TAK00000TG (DNV GL)
- Norsok M-501 No.7A: certificate number TAK00000TH (DNV GL)
- Norsok M-501 No.7A: certificate number TAK00000TJ (DNV GL)
- Norsok M-501 No.7A: certificate number TAK000004M (DNV GL)
- Norsok M-501 No.7B: certificate number K-6344 (DNV GL)
- Norsok M-501 No.7B: certificate number K-6346 (DNV GL)

MIXING & THINNING

Mixing	Mix base and hardener according to the mixing ratio and stir thoroughly.
Thinning	Use Epoxy Thinner (CONTITHINNER 12) to thin up 0-5%.
Mixing Ratio	Base: Hardener = 79.3: 20.7 (by weight)
Pot Life	2 hours at 77°F (mixture, 25°C)

APPLICATION EQUIPMENT GUIDELINES

Spray Application	Avoid applying the coating in rainy weather or the relative humidity exceed 85%. particularly, a wet surface must be thoroughly dry. All equipment's 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: 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°C)	50°F (10°C)	30%
Maximum	95°F (35°C)	131°F (55°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.

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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)	2 hours	8 hours	7 days
95°F (35°C)	1 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)	4 hours	2 months	1 months
104°F (40°C)	3 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 : 9.47lbs (4.3 kg)
Part B : 2.86 lbs (1.3 kg)
5 Gallon Kit – Part A : 47.4 lbs (21.5 kg)
Part B : 14.33 lbs (6.5 kg)

Storage Temperature & Humidity

41-95°F (5-35°C)
0-90% Relative Humidity

Flash Point

Above 77°F (25°C)

Storage

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