

CONTISHINE 2251 (NO.2951) POLYSILOXANE CLEAR VARNISH

TYPE

The coating is based on siloxane resin and anti-corrosion pigment cured by silane.

USES

Use for top coated to protect ships, bridges, tanks, pipelines, and steel structures.

CHARACTERISTICS

- High gloss and excellent appearance.
- Excellent weather resistance with gloss and color retention.
- Excellent anticorrosion and water resistance.
- Excellent adhesion, hardness, flexibility and abrasion resistance.
- Can replace the epoxy intermediate and polyurethane top coat.

PRACTICAL INFORMATION

Color	Clear
Gloss Level	High Gloss
VOC Values	4.25 lbs/gal (500 g/l)
Volume Solids	48%±3%
Theoretical Coverage	1 mils : 782.5 ft ² /gal (72.7 m ² /l)
Typical Thickness	1 mils (25um)
Service Temperature	Below 194°F (90°C)
Preceding Coats	Inorganic Zinc Rich Primer, Epoxy Zinc Rich Primer, Epoxy Alloy Primer, and One Pack Polyurethane Maintenance Primer.
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.
Steel	Surface preparation standards can use SSPC-SP10 or Sa2 1/2 (ISO 8501-1:2007).
Primed Surfaces	CONTISHINE 2251 should always be applied over a recommended anti-corrosive coating scheme. The primer surface should be dry and free from all contamination and It must be applied within the overcoating intervals specified (consult the relevant product data sheet).

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SUBSTRATES & SURFACE PREPARATION

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 CONTISHINE.2251.

MIXING & THINNING

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 = 2.9: 0.8 (by weight) ; 0.79 : 0.21 (by volume)

Pot Life 5 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 30 : 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	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)	24 hours	48 hours	7 days
59°F (15°C)	16 hours	24 hours	7 days
77°F (25°C)	8 hours	24 hours	7 days
95°F (35°C)	6 hours	12 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	10 days	7 days
104°F (40°C)	3 hours	5 days	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	Part A: 1 Gallon — 2.9kg 5 Gallon — 14.5kg Part B: 1 Gallon — 0.8kg 5 Gallon — 4.0kg
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.