

TYPE

A two-pack, high- build colored coating is based on acrylic polyol resin with polyisocyantates hardener.

USES

Use for wooden, metal, FRP products and steel structures such as ships, vehicles, bridges, oil refineries, power stations, pulp factories, chemical plants etc.

CHARACTERISTICS

- High gloss and an excellent appearance.
- Excellent weather resistance with gloss and color retention.
- Excellent resistance to chemicals.
- Excellent adhesion flexibility and abrasion resistance.
- CONTITHANE 7247 can be used in the corrosive environment above C4(according to ISO-12944-5).

PRACTICAL INFORMATION

Color A broad range of colors is upon customer request.

Gloss Level Gloss.

VOC Values 2.1 lbs/gal(255 g/l) , use CONTITHINNER 39 thinner to thin

up 5% (2.42 lbs/gal=290 g/l) or 15% (3.0 lbs/gal=360 g/l).

Volume Solids 70±3%

Theoretical Coverage 1.0 mils =1136 ft²/gal (27.9 m²/l)

3.2 mils = 355 ft²/gal (8.7 m²/l)

Typical Thickness 3.2~4 mils per coat.

Dry film thickness in excess of 4 mils (100 microns) per coat

is not recommended

Service Temperature Continuous : 200°F(93°C) Non-Continuous :250°F(121°C)

Preceding Coats Contipoxy 1102 Epoxy Primer / Contizinc 1073 Epoxy Zinc

Rich Primer / Contipoxy 1620 Epoxy M.I.O. Primer /

Contipoxy 1299 High Solids Epoxy Coating / Contizinc 7770

One Pack Polyurethane Maintenance Primer

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

Primed Surfaces

CONTITHANE 7247 should always be applied over a recommended anti-corrosion coating scheme. The primer surface should be dry and free from all contamination and CONTITHANE 7247 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 CONTITHANE 7247.

PERFORMANCE DATA

Test Method	System	Results	
ASTM D522 method B Flexibility	1 ct. CONTITHANE 7247	No cracking and peeling on film	
ASTM D2794 Impact resistance	1 ct. CONTITHANE 7247	No cracking and peeling on film	
ASTM D3359 Adhesiveness between layers	1 ct. CONTIPOXY 1620 1 ct. CONTITHANE 7247	5A	
ASTM D4060 Adhesion	Blasted Steel 1 ct. CONTIPOXY 1620 1 ct. CONTITHANE 7247	1680 psi	
ASTM D4541	Blasted Steel	11.4mg. loss after 1000 cycles,	
Abrasion	1 ct. CONTITHANE 7247	CS17 wheel, 1000 gm. load	
ASTM D4400 - 18 Sag Resistance	1 ct. CONTITHANE 7247	250 um	
	Blasted Steel 1 ct. Contithane 7247	Withstand accelerated weather	
		esistance Test of 1000hrs.	
ASTM D4587		Appearance : No blistering \	
Accelerated Weathering		cracking and peeling on film.	
(QUV-B)		Color difference: Not larger than	
		reference sample. Chalking grade:	
		0 Gloss retaining ratio(%): 76.8	

Test reports and additional data available upon written request.

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MIXING & THINNING

Mixing Mix base and hardener according to the mixing ratio and stir

thoroughly.

Mixing Ratio Use PU Thinner (CONTITHINNER 39) to thin up 5~15%

Base: Hardener = 85: 15 (by volume) Some individual colors may

be different.

Pot Life 3 hours at 77° F(mixture, 25° C)

APPLICATION EQUIPMENT GUIDELINES

Spray Application Avoid applying the coating in rainy or humid weather (the

moisture above 85% RH), otherwise the adhesion will be affected by moisture of substrate and the coating film will be loss its gloss. All equipment must be cleaned immediately after use. When overcoating interval is exceeded, coating surface must be roughened to ensure adhesion. Hardener covers must be tightly closed to avoid reaction with moisture in air to form bubbles and

gelation.

Airless Spray Pump ratio 30:1 or greater

Tip size : 0.015"~ 0.019" Output PSI : 2100~2500

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
Normal	68°F~86°F (20~30°C)	68°F~86°F (20~30°C)	68°F~86°F (20~30°C)	30~55%
Minimum	41 °F (5 °ℂ)	41°F (5°C)	41 °F (5℃)	0%
Maximum	95°F(35°ℂ)	108°F(42°ℂ)	108°F(42°ℂ)	85%

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

Caution: This Product is moisture sensitive in the liquid stage and until cured. Protect from high humidity, dew and direct moisture contact until cures. Application and/or curing in humidities above maximum, or exposure to moisture from rain or dew may result in a loss of gloss and/or microbubbling of the product.

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CURING SCHEDULE

Surface Temp. (50% Relative Humidity)	Touch Dry	Hard Dry	Dry to Handle
41°F (5°C)	18 hours	30 hours	30 hours
59°F (15°C)	10 hours	20 hours	20 hours
77 °F (25 °ℂ)	1.5 hours	8 hours	8 hours
95 °F (35 °C)	1 hours	5 hours	5 hours

OVERCOATING INTERVAL

Surface Temp. (50% Relative Humidity)	Minimum	Maximum
41 °F (5 °C)	30 hours	18 days
59°F (15°C)	20hours	14 days
77 °F (25℃)	8 hours	10 days
95°F (35°C)	5 hours	7 days

CLEANER & SAFETY

Cleaner Use PU Thinner (CONTITHINNER 39) 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 – 3.94kg 5 Gallon –19.4 kg

Part B: 1 Gallon - 0.74kg 5 Gallon - 3.3 kg

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

0-90% Relative Humidity

Flash Point Part A: $77^{\circ}F$ (25°C)

Part B: 116°F (47°C)

Storage Store in dry, shaded conditions away from

sources of heat and ignition.

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