

# CONTITHANE 7248 (UP-460) HIGH BUILD POLYURETHANE COATING

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## TYPE

A two-pack, high- build colored coating based on acrylic polyol resin with a special polyisocyanates hardener.

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## USES

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

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## CHARACTERISTICS

- High gloss and excellent appearance.
- Excellent weather resistance with gloss and color retention.
- Excellent resistance to chemicals.
- Excellent adhesion, flexibility and abrasion resistance.

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## PRACTICAL INFORMATION

<b>Color</b>	A broad range of colors is upon customer request.
<b>Gloss Level</b>	Gloss
<b>VOC Values</b>	1.33 lbs/gal(160 g/l) , use CONTITHINNER 39 to thin up 5% (1.67 lbs/gal=200 g/l) or 15% (2.25 lbs/gal=270 g/l).
<b>Volume Solids</b>	80 ± 3%
<b>Theoretical Coverage</b>	1.0 mil =1290 ft <sup>2</sup> /gal (31.7 m <sup>2</sup> /l) 3.2 mils =403 ft <sup>2</sup> /gal (9.9 m <sup>2</sup> /l)
<b>Typical Thickness</b>	3.2~4 mils per coat. Dry film thickness in excess of 4 mils (100 microns) per coat is not recommended
<b>Service Temperature</b>	Continuous : 200°F(93°C) Non-Continuous :250°F(121°C)
<b>Preceding Coats</b>	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
<b>Mass Density</b>	1.24 ± 0.05 Kg / L

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## 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 7248 should always be applied over a recommended anti-corrosion coating scheme. The primer surface should be dry and free from all contamination and CONTITHANE 7248 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 7248.

## PERFORMANCE DATA

Test Method	System	Results
ASTM D522 method B Flexibility	1 ct. CONTITHANE 7248	No cracking and peeling on film
ASTM D2794 Impact resistance	1 ct. CONTITHANE 7248	No cracking and peeling on film
ASTM D3359 Adhesiveness between layers	1 ct. CONTIPOXY 1620 1 ct. CONTITHANE 7248	5A
ASTM D4060 Adhesion	Blasted Steel 1 ct. CONTIPOXY 1620 1 ct. CONTITHANE 7248	1260 psi
ASTM D4541 Abrasion	Blasted Steel 1 ct. CONTITHANE 7248	58.2 mg loss after 1000 cycles. CS17 wheel, 1000 gm load.
ASTM D4400 - 18 Sag Resistance	1 ct. CONTITHANE 7248	250 um

Test reports and additional data available upon written request.

## MIXING & THINNING

<b>Mixing</b>	Mix base and hardener according to the mixing ratio and stir thoroughly.
<b>Thinning</b>	Use PU Thinner (CONTITHINNER 39) to thin up 5~15%.
<b>Mixing Ratio</b>	Base : Hardener = 80 : 20 ( by volume ) Some individual colors may be different.
<b>Pot Life</b>	2 hours at 77°F ( mixture, 25°C ).

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### APPLICATION EQUIPMENT GUIDELINES

<b>Spray Application</b>	Avoid applying the paint in rainy or humid weather (the moisture above 85% RH), otherwise the adhesion will be affected by moisture of substrate and the paint film will be loss its gloss. All equipment must be cleaned immediately after use. When overcoating interval is exceeded, paint surface must be roughened to insure adhesion. Hardener cover must be tightly closed to avoid reaction with moisture in air to form bubbles and gelation.
<b>Airless Spray</b>	Pump ratio 30:1 or greater Tip size : 0.015”~ 0.019” Output PSI : 2100~2500
<b>Brush</b>	Application by brush is applicable. For special condition please consult with product manufacturer.
<b>Roller</b>	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°C)	0%
Maximum	95°F(35°C)	108°F(42°C)	108°F(42°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
41°F ( 5°C )	18 hours	30 hours	30 hours
59°F (15°C)	10 hours	20 hours	20 hours
77°F (25°C)	3 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)	20 hours	14 days
77°F (25°C)	8 hours	10 days
95°F (35°C)	5 hours	7 days

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## CLEANER & SAFETY

<b>Cleaner</b>	Use PU Thinner (CONTITHINNER 39) to clean. In case of spillage, absorb and dispose of in accordance with local applicable regulations.
<b>Safety Ventilation</b>	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

<b>Shelf Life</b>	Part A : Minimum 2 years under normal storage conditions. Part B : Minimum 1 years under normal storage conditions.
<b>Shipping Weight</b>	Part A : 1 Gallon – 4.04kg    5 Gallon –19.9 kg Part B : 1 Gallon – 1.04kg    5 Gallon – 4.8 kg
<b>Storage Temperature &amp; Humidity</b>	41-95°F (5-35°C)
<b>Flash Point</b>	Part A : 77°F (25°C) Part B : 116°F (47°C)
<b>Storage</b>	Store in dry, shaded conditions away from sources of heat and ignition.