

# CONTIPOXY 1216 (EP-116)

## EPOXY MULTI-PURPOSE PRIMER

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### TYPE

The two-packs, universal anti-corrosion primer based on epoxy resin, hardener and special pigments.

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### USES

Use for the new building system or the maintenance system, including ship's all areas such as ballast tank, underwater hull, topside, deck, cargo tank, oil tank, superstructure, interior. Also utilize for anti-corrosion engineering of steel structure such as chemical factories, bridges, power plants, inlet and outlet pipes, drains and sewers etc.

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### CHARACTERISTICS

- Simplified procedure and unique long terms anti-corrosive performance.
- Excellent anti-corrosion and adhesion, widely used for shop primer, steel plate (sand-blasted or mechanical surface preparation), aluminum, stainless steel, and galvanized steel etc.
- Can be coated well with Epoxy or Polyurethane coating.
- Excellent resistance to mechanical damage.
- Excellent resistance to seawater and corrosion, suitable for steel and non-ferrous metal.
- Easy to apply, very fast drying, available for all year round.

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### PRACTICAL INFORMATION

<b>Color</b>	Yellowish Green, Grey, Red Oxide
<b>Gloss Level</b>	Flat
<b>VOC Values</b>	3.3 lbs/gal (402 g/l)
<b>Volume Solids</b>	Above 60%
<b>Theoretical Coverage</b>	3mils : 325.9 ft <sup>2</sup> /gal (8 m <sup>2</sup> /l) 8mils : 122.2 ft <sup>2</sup> /gal (3 m <sup>2</sup> /l)
<b>Typical Thickness</b>	DFT : 3~8 mils    WFT : 5~13.3 mils
<b>Service Temperature</b>	≤194°F (90°C)
<b>Subsequent Coats</b>	Epoxy coating, PU coating, Fluorocarbon coating, etc...
<b>Repair</b>	Self-repair

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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

<b>Steel</b>	Surface preparation standards can be used SSPC-SP10, Sa2 1/2 (ISO 8501-1:2007) or hand rusting to SIS St3. Roughness for structure of carbon steel requires for 45~60 microns.
<b>Stainless &amp; Galvanized</b>	The galvanized or stainless steel must be sand blasted to SIS Sa1 before application. Roughness for stainless and galvanized steel surface should be above 25 microns.
<b>Primed Surfaces</b>	CONTIPOXY 1216 should always be applied over a recommended anti-corrosive coating scheme. The primer surface should be dry and free from all contamination and CONTIPOXY 1216 must be applied within the overcoating intervals specified .(consult the relevant product data sheet)
<b>Areas of Breakdown and Damage</b>	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 1216.

## PERFORMANCE DATA

Test Method	System	Results
ISO 20340-09 Ageing test	Blasted Steel 1 ct. EP-116 (50 um) 1 ct. UP-204 (30 um) 1 ct. UP-100 (1200 um) 1 ct. NO.54HB (60 um)	Pin holes: No pinholes Adhesion unexposed: 7.3 MPa (ISO 4624-02) Adhesion: 10.3 Mpa (ISO 4624-02) No blistering (ISO 4628-2-03) No rusting (ISO 4628-3-03) No cracking (ISO 4628-4-03) No flaking (ISO 4628-5-03) Chalking rating: 1 (ISO 4628-6-03) Corrosion: 5.49 mm
ISO 20340-09 Ageing test	Blasted Steel 1 ct. EP-116 (50 um) 1 ct. UP-204 (30 um) 1 ct. UP-100 (1200 um)	Pin holes: No pinholes Adhesion unexposed: 7.3 Mpa (ISO 4624-02) Adhesion: 10.3 Mpa (ISO 4624-02) No blistering (ISO 4628-2-03) No rusting (ISO 4628-3-03) No cracking (ISO 4628-4-03) No flaking (ISO 4628-5-03) Chalking rating: 1 (ISO 4628-6-03) Corrosion: 5.49 mm

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## PERFORMANCE DATA

Test Method	System	Results
ISO 2812-2-07 Sea water immersion test	Blasted Steel 1 ct. EP-116 (50 um) 1 ct. UP-204 (30 um) 1 ct. UP-100 (1200 um)	Pin holes: No pinholes Adhesion unexposed: 7.3 MPa (ISO 4624-02) Adhesion: 10.9 MPa (ISO 4624-02) No blistering (ISO 4628-2-03) No rusting (ISO 4628-3-03) No cracking (ISO 4628-4-03) No flaking (ISO 4628-5-03) Corrosion: 2.31 mm
ISO 15711-03 Cathodic disbanding test method A	Blasted Steel 1 ct. EP-116 (50 um) 1 ct. UP-204 (30 um) 1 ct. UP-100 (1200 um)	Pin holes: No pinholes Adhesion unexposed: 7.3 MPa (ISO 4624-02) Adhesion: 11.6 MPa (ISO 4624-02) No blistering (ISO 4628-2-03) No rusting (ISO 4628-3-03) No cracking (ISO 4628-4-03) No flaking (ISO 4628-5-03) Disbonding: 0 mm
ISO 2812-2-07 Sea water immersion test	Blasted Steel 1 ct. EP-116 (60 um) 2 ct. EP-988 (240 um) 1 ct. NO.54HB (60 um)	Pin holes: No pinholes Adhesion unexposed: 14.9 MPa (ISO 4624-02) Adhesion: 18.1 MPa (ISO 4624-02) No blistering (ISO 4628-2-03) No rusting (ISO 4628-3-03) No cracking (ISO 4628-4-03) No flaking (ISO 4628-5-03) Corrosion: 2.94 mm
ISO 15711-03 Cathodic disbanding test method A	Blasted Steel 1 ct. EP-116 (60 um) 2 ct. EP-988 (240 um) 1 ct. NO.54HB (60 um)	Pin holes: No pinholes Adhesion unexposed: 14.9 MPa (ISO 4624-02) Adhesion: 14.0 MPa (ISO 4624-02) No blistering (ISO 4628-2-03) No rusting (ISO 4628-3-03) No cracking (ISO 4628-4-03) No flaking (ISO 4628-5-03) Disbonding: 0 mm
ISO 2812-2-07 Sea water immersion test	Blasted Steel 1 ct. EP-116 (60 um) 2 ct. EP-988 (270 um)	Pin holes: No pinholes Adhesion unexposed: 19.9 MPa (ISO 4624-02) Adhesion: 22.4 MPa (ISO 4624-02) No blistering (ISO 4628-2-03) No rusting (ISO 4628-3-03) No cracking (ISO 4628-4-03) No flaking (ISO 4628-5-03) Corrosion: 3.43 mm

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## PERFORMANCE DATA

Test Method	System	Results
ISO 15711-03 Cathodic disbanding test method A	Blasted Steel 1 ct. EP-116 (60 um) 2 ct. EP-988 (270 um)	Pin holes: No pinholes Adhesion unexposed: 19.9 MPa (ISO 4624-02) Adhesion: 19.1 MPa (ISO 4624-02) No blistering (ISO 4628-2-03) No rusting (ISO 4628-3-03) No cracking (ISO 4628-4-03) No flaking (ISO 4628-5-03) Disbonding: 0 mm

Test reports and additional data available upon written request.

## CERTIFICATION

- **NORSOK M-501, Rev.6, System NO.1(EP-116+UP-204+UP-100+NO.54HB) :**  
DNV·GL Type Examination Certificate: Certificate Number K-6347 Date 12 JUN 2015  
CS-DNV Technical Report: Report Number CDTI-CL-15F009 Date 03 APR 2015
- **NORSOK M-501, Rev.6, System NO.7A (EP-116+UP-204+UP-100) :**  
DNV·GL Type Examination Certificate: Certificate Number K-6343 Date 12 JUN 2015  
CCS-DNV Technical Report: Report Number CDTI-CL-15F005 Date 07 APR 2015
- **NORSOK M-501, Rev.6, System NO.7B (EP-116+EP-988+NO.54HB) :**  
DNV·GL Type Examination Certificate: Certificate Number K-6346 Date 12 JUN 2015  
CCS-DNV Technical Report: Report Number CDTI-CL-15F008 Date 07 APR 2015
- **NORSOK M-501, Rev.6, System NO.7B (EP-116+EP-988) :**  
DNV·GL Type Examination Certificate: Certificate Number K-6344 Date 12 JUN 2015  
CCS-DNV Technical Report: Report Number CDTI-CL-15F006 Date 03 APR 2015

## MIXING & THINNING

<b>Mixing</b>	Mix base and hardener according to the mixing ratio and stir thoroughly.
<b>Thinning</b>	Use Epoxy Thinner (CONTITHINNER 12) to thin up 5-10%
<b>Mixing Ratio</b>	Base : Hardener = 86 : 14 ( by weight )
<b>Pot Life</b>	6 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.

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### APPLICATION EQUIPMENT GUIDELINES

<b>Airless Spray</b>	Pump ratio : 45:1 or greater Tip size : 0.029"~0.035" Output PSI : 2500~4000 PSI
<b>Brush</b>	Application by brush is applicable. Thinning rate: 0~5%. For special condition please consult with product manufacturer.
<b>Roller</b>	Application by roller is applicable. Thinning rate: 0~5%. 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%

### CURING SCHEDULE

Surface Temp. ( 50% Relative Humidity )	Touch Dry	Hard Dry	Dry to Handle
50°F (10°C)	6 hours	24 hours	7 days
77°F (25°C)	1.5 hours	4 hours	7 days
122°F (50°C)	1 hours	2 hours	3 days

### OVERCOATING INTERVAL

Surface Temp. ( 50% Relative Humidity )	Minimum	Maximum (No direct exposure to sunlight)	Maximum (Directly exposure to sunlight)
41°F (5°C)	13 hours	6 months	3 months
50°F (10°C)	6 hours	6 months	3 months
68°F (20°C)	2.5 hours	6 months	3 months
86°F (30°C)	1.5 hours	4 months	2 months
104°F (40°C)	1 hours	3 months	2 months

### CLEANER & SAFETY

<b>Cleaner</b>	Use Epoxy Thinner (CONTITHINNER 12) 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>	Minimum 24 months under normal conditions.	
<b>Shipping Weight</b>	1 Gallon Kit – Part A : 4.2 kg	Part B : 0.7 kg
	5 Gallon Kit – Part A : 21 kg	Part B : 3.5 kg
<b>Storage Temperature &amp; Humidity</b>	41-95°F(5-35°C) 0-90% Relative Humidity	
<b>Flash Point</b>	Part A : 77°F(25°C)    Part B : 77°F(25°C)	
<b>Storage</b>	Store in dry, shaded conditions away from sources of heat and ignition.	