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#### DESCRIPTION

Two-component, high solids polyamine adduct cured zinc rich epoxy primer

#### **PRINCIPAL CHARACTERISTICS**

- · Designed as a system primer in various paint systems for aggressive environments
- Excellent anticorrosive properties
- Quick-drying, can be overcoated after a short interval
- Suitable for use in offshore and onshore environments with ISO 12944-2 corrosivity categories of C5 and CX (offshore)
- Complies with the compositional requirements of ISO 12944–5
- Meets the requirements of Norsok M-501 rev. 6, System 1

#### **COLOR AND GLOSS LEVEL**

- Reddish gray
- Flat

#### BASIC DATA AT 20°C (68°F)

Data for mixed product				
Number of components	Two			
Mass density	3.0 kg/l (25.0 lb/US gal)			
Volume solids	70 ± 2%			
VOC (Supplied)	Directive 2010/75/EU, SED: max. 106.0 g/kg max. 310.0 g/l (approx. 2.6 lb/US gal) EPA Method 24: 300.0 g/ltr (2.5 lb/USgal) China GB 30981-2020 (tested) 273.0 g/l (approx. 2.3 lb/gal)			
Recommended dry film thickness	50 - 100 μm (2.0 - 4.0 mils) depending on system			
Theoretical spreading rate	11.7 m²/l for 60 μm (468 ft²/US gal for 2.4 mils)			
Dry to touch	3 hours			
Overcoating Interval	Minimum: 3 hours See overcoating tables			
Full cure after	7 days			
Shelf life	Base: at least 24 months when stored cool and dry Hardener: at least 24 months when stored cool and dry			

#### Notes:

- See ADDITIONAL DATA Spreading rate and film thickness
- See ADDITIONAL DATA Overcoating intervals
- See ADDITIONAL DATA Curing time



#### **RECOMMENDED SUBSTRATE CONDITIONS AND TEMPERATURES**

#### Immersion exposure

- Steel; blast cleaned to ISO-Sa2½ (SSPC SP-10), blasting profile 40 70 μm (1.6 2.8 mils)
- Steel with approved zinc silicate shop primer; pretreated according to ISO-Sa1 (SPSS-SP7)

#### Atmospheric exposure conditions

- Steel; blast cleaned to ISO-Sa2½ or minimum SSPC SP-6, blasting profile 40 70 μm (1.6 2.8 mils)
- Steel with approved zinc silicate shop primer; pretreated according to ISO-Sa1 (SPSS-SP7) or power tool cleaned to ISO-St3 (SSPC SP3)

#### Substrate temperature

- Substrate temperature during application and curing should be above 5°C (41°F)
- Substrate temperature during application and curing should be at least 3°C (5°F) above dew point

#### **INSTRUCTIONS FOR USE**

#### Mixing ratio by volume: base to hardener 90:10 (9:1)

- The temperature of the paint should preferably be above 15°C (59°F), otherwise extra thinner may be required to obtain application viscosity
- Adding too much thinner results in reduced sag resistance
- Thinner should be added after mixing the components

#### Induction time

None

Pot life 8 hours at 20°C (68°F)

#### Air spray

Recommended thinner THINNER 91-92

**Volume of thinner** 0 - 5%, depending on required thickness and application conditions

**Nozzle orifice** 1.5 – 2.5 mm (approx. 0.060 – 0.100 in)

#### **Nozzle pressure**

0.3 - 0.6 MPa (approx. 3 - 6 bar; 44 - 87 p.s.i.)



#### Airless spray

Recommended thinner THINNER 91-92

**Volume of thinner** 0 - 5%, depending on required thickness and application conditions

**Nozzle orifice** Approx. 0.43 – 0.48 mm (0.017 – 0.019 in)

Nozzle pressure 20.0 MPa (approx. 200 bar; 2901 p.s.i.)

#### **Brush/roller**

Recommended thinner THINNER 91-92

**Volume of thinner** 0 - 5%

### Cleaning solvent

THINNER 90-53

#### **ADDITIONAL DATA**

Spreading rate and film thickness				
DFT	Theoretical spreading rate			
60 µm (2.4 mils)	11.7 m²/l (468 ft²/US gal)			
100 µm (4.0 mils)	7.0 m²/l (281 ft²/US gal)			

Overcoating interval for DFT up to 100 μm (4.0 mils)								
Overcoating with	Interval	0°C (32°F)	10°C (50°F)	20°C (68°F)	30°C (86°F)	40°C (104°F)		
subsequent coating	Minimum	12 hours	6 hours	3 hours	2 hours	1 hour		
	Maximum	3 months	3 months	3 months	3 months	3 months		

Notes:

- Zinc rich primers can form zinc salts on the surface; preferably they should not be weathered for long periods before overcoating
- Before overcoating visible surface contamination must be removed by high-pressure water cleaning, sweep blasting or mechanical cleaning



Curing time for DFT up to 100 µm (4.0 mils)							
Substrate temperature	Dry to touch	Dry to handle	Full cure				
0°C (32°F)	8 hours	10 hours	25 days				
10°C (50°F)	6 hours	8 hours	20 days				
15°C (59°F)	4 hours	5 hours	10 days				
20°C (68°F)	3 hours	4 hours	7 days				
30°C (86°F)	1.5 hours	2 hours	5 days				

#### Notes:

- Adequate ventilation must be maintained during application and curing
- In case of application at air or surface temperature below 5°C (41°F), the temperature of the mixed paint is recommended to be higher than 10°C (50°F)

#### SAFETY PRECAUTIONS

- · See Safety Data Sheet and product label for complete safety and precaution requirements
- This is a solvent-borne paint and care should be taken to avoid inhalation of spray mist or vapor, as well as contact between the wet paint and exposed skin or eyes

#### WORLDWIDE AVAILABILITY

It is always the aim of PPG Protective and Marine Coatings to supply the same product on a worldwide basis. However, slight modification of the product is sometimes necessary to comply with local or national rules/circumstances. Under these circumstances an alternative product data sheet is used.

#### REFERENCES

• EXPLANATION TO PRODUCT DATA SHEETS

INFORMATION SHEET 1411

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