## **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
- Suitable for use in offshore and onshore environments with ISO 12944-2 corrosivity categories of C5 and CX (offshore)
- Meets the requirements of Norsok M-501 Rev. 6, System 1
- Quick-drying, can be overcoated after a short interval
- Complies with the compositional requirements of ISO 12944-5
- · Complies with the compositional requirements of SSPC-Paint 20, Level 2
- The zinc dust used in this product complies with minimum ASTM D520 Type II

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

- · Gray, reddish gray
- Flat

## BASIC DATA AT 20°C (68°F)

Data for mixed product				
Number of components	Two			
Mass density	2.4 kg/l (20.0 lb/US gal)			
Volume solids	68 ± 2%			
VOC (Supplied)	Directive 2010/75/EU, SED: max. 130.0 g/kg max. 310.0 g/l (approx. 2.6 lb/US gal)			
Recommended dry film thickness	50 - 150 μm (2.0 - 6.0 mils) depending on system			
Theoretical spreading rate	13.6 m²/l for 50 μm (545 ft²/US gal for 2.0 mils)			
Dry to touch	20 minutes			
Overcoating Interval	Minimum: 1.5 hours Maximum: 3 months			
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

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#### RECOMMENDED SUBSTRATE CONDITIONS AND TEMPERATURES

## **Atmospheric exposure conditions**

- Steel; blast cleaned to ISO Sa-2½ or minimum SSPC SP-6, blasting profile 40 70 μm (1.6 2.8 mils)
- Steel with zinc silicate shop primer; pretreated according to ISO Sa-1 (SSPC SP-7) or power tool cleaned to ISO St-3 (SSPC SP-3)
- For touch up and repair, power tool cleaning in accordance with ISO St-3 (SSPC SP-3) is acceptable for small areas and SSPC SP-11 should be specified for large repair areas where blasting is not allowed

#### **Immersion exposure**

- Steel; blast cleaned to ISO Sa-2½ or minimum SSPC SP-6, blasting profile 40 70 μm (1.6 2.8 mils)
- Steel with zinc silicate shop primer; pretreated according to ISO Sa-1 (SSPC SP-7)
- For touch up and repair, power tool cleaning in accordance with ISO St-3 (SSPC SP-3) is acceptable for small areas
  and SSPC SP-11 should be specified for large repair areas where blasting is not allowed

#### Substrate temperature

- Substrate temperature during application should be at least 0°C (32°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 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

## Pot life

6 hours at 20°C (68°F)

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## Air spray

## **Recommended thinner**

THINNER 91-92 or THINNER 91-82 (AMERCOAT T-10)

#### 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 or THINNER 91-82 (AMERCOAT T-10)

#### Volume of thinner

0 - 5%, depending on required thickness and application conditions

#### **Nozzle orifice**

Approx. 0.43 - 0.53 mm (0.017 - 0.021 in)

## Nozzle pressure

15.0 MPa (approx. 150 bar; 2176 p.s.i.)

## **Brush/roller**

#### **Recommended thinner**

THINNER 91-92 or THINNER 91-82 (AMERCOAT T-10)

## **Volume of thinner**

0 - 5%

#### Cleaning solvent

• THINNER 90-53, THINNER 90-58 (AMERCOAT 12) or THINNER 21-06 (AMERCOAT 65)

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## **ADDITIONAL DATA**

Spreading rate and film thickness				
DFT	Theoretical spreading rate			
50 μm (2.0 mils)	13.6 m²/l (545 ft²/US gal)			
60 μm (2.4 mils)	11.3 m²/l (454 ft²/US gal)			
75 µm (3.0 mils)	9.1 m²/l (364 ft²/US gal)			
100 μm (4.0 mils)	6.8 m <sup>2</sup> /l (273 ft <sup>2</sup> /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	6 hours	3 hours	1.5 hours	1 hour	30 minutes		
	Maximum	3 months	3 months	3 months	3 months	3 months		

## Notes:

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

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)	1.5 hours	6 hours	20 days			
10°C (50°F)	1 hour	3 hours	15 days			
20°C (68°F)	20 minutes	1.5 hours	7 days			
30°C (86°F)	10 minutes	1 hour	5 days			
40°C (104°F)	5 minutes	20 minutes	2 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 must be higher than 10°C (50°F)

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#### **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 & 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**

· Information sheet | Explanation of product data sheets

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