### **DESCRIPTION**

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

### PRINCIPAL CHARACTERISTICS

- Designed as a system primer for various paint systems
- · Excellent anticorrosive properties
- · Quick-drying, can be overcoated after a short interval
- Can serve as a holding primer for various maintenance systems for a total repair
- · Very good primer for systems with high solids epoxy buildcoats
- · Complies with SSPC-Paint 20 level 2 and ISO 12944.5

### **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	2.8 kg/l (23.4 lb/US gal)	
Volume solids	66 ± 2%	
VOC (Supplied)	Directive 2010/75/EU, SED: max. 106.0 g/kg max. 299.0 g/l (approx. 2.5 lb/US gal) China GB 30981-2020 (tested) 259.0 g/l (approx. 2.2 lb/gal)	
Recommended dry film thickness	50 - 150 μm (2.0 - 6.0 mils) depending on system	
Theoretical spreading rate	11.0 m²/l for 60 μm (441 ft²/US gal for 2.4 mils)	
Dry to touch	2.5 hours	
Overcoating Interval	Minimum: 4 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

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### RECOMMENDED SUBSTRATE CONDITIONS AND TEMPERATURES

#### **Immersion exposure**

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

### **Atmospheric exposure conditions**

- Steel; blast cleaned to ISO-Sa2½, blasting profile 40 70 μm (1.6 2.8 mils)
- Steel with approved zinc silicate shop primer pretreated according to SPSS or power tool cleaned to SPSS-Pt3

#### Substrate temperature

- Substrate temperature during application and curing down to 0°C (32°F) is acceptable; provided the substrate is free from
  ice and dry
- Substrate temperature during application and curing should be at least 3°C (5°F) above dew point
- Relative humidity during application and curing should not exceed 80%

### **INSTRUCTIONS FOR USE**

### Mixing ratio by volume: base to hardener 80:20 (4:1)

- The temperature of the mixed base and hardener 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 and slower cure
- Thinner should be added after mixing the components

### Induction time

None

### Pot life

6 hours at 20°C (68°F)

### **Air spray**

### Recommended thinner

**THINNER 91-92** 

### Volume of thinner

0 - 15%, depending on required thickness and application conditions

### **Nozzle orifice**

1.8 - 2.2 mm (approx. 0.070 - 0.087 in)

### **Nozzle pressure**

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

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### Airless spray

### **Recommended thinner**

THINNER 91-92

### Volume of thinner

0 - 15%, depending on required thickness and application conditions

### **Nozzle orifice**

Approx. 0.43 - 0.48 mm (0.017 - 0.019 in)

### **Nozzle pressure**

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

### **Brush/roller**

### **Recommended thinner**

THINNER 91-92

### Volume of thinner

0 - 10%

### **Cleaning solvent**

THINNER 90-53

### **ADDITIONAL DATA**

Spreading rate and film thickness				
DFT	Theoretical spreading rate			
60 μm (2.4 mils)	11.0 m²/l (441 ft²/US gal)			
75 μm (3.0 mils)	8.8 m²/l (353 ft²/US gal)			
100 μm (4.0 mils)	6.6 m <sup>2</sup> /l (265 ft <sup>2</sup> /US gal)			
150 µm (6.0 mils)	4.4 m²/l (176 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	24 hours	8 hours	4 hours	3 hours	2 hours
	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

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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)	12 hours	20 hours	30 days			
10°C (50°F)	5 hours	6 hours	20 days			
15°C (59°F)	3 hours	4 hours	10 days			
20°C (68°F)	2.5 hours	3 hours	7 days			
30°C (86°F)	1 hour	1.5 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)

Pot life (at application viscosity)				
Mixed product temperature	Pot life			
10°C (50°F)	12 hours			
20°C (68°F)	6 hours			
30°C (86°F)	4.5 hours			
40°C (104°F)	3 hours			

### **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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