### **DESCRIPTION**

Two-component, high solids polyamide 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
- Complies with HG/T3668-2009
- 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                   | 2.4 kg/l (19.7 lb/US gal)  |
| Volume solids                  | 66 ± 2%  |
| VOC (Supplied)                 | Directive 2010/75/EU, SED: max. 123.0 g/kg UK PG 6/23(92) Appendix 3: max. 290.0 g/l (approx. 2.4 lb/US gal) |
| Recommended dry film thickness | 50 - 150 μm (2.0 - 6.0 mils)   |
| Theoretical spreading rate     | $8.8 \text{ m}^2\text{/I for } 75 \mu\text{m}$ (353 ft²/US gal for 3.0 mils)                                 |
| Dry to touch                   | 20 minutes   |
| Overcoating Interval           | Minimum: 2 hours Maximum: 3 months   |
| Full cure after                | 7 days   |
| Shelf life                     | Base: at least 12 months when stored cool and dry Hardener: at least 12 months when stored cool and dry      |

#### Notes:

- See ADDITIONAL DATA Overcoating intervals
- See ADDITIONAL DATA Curing time

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#### RECOMMENDED SUBSTRATE CONDITIONS AND TEMPERATURES

## **Atmospheric exposure conditions**

- Steel; shot 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 SSPC SP3 (SPSS- Pt3)

## Substrate temperature

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

#### **INSTRUCTIONS FOR USE**

#### Mixing ratio by volume: base to hardener 5.67:1

- The temperature of the paint should preferably be above 15°C (59°F), otherwise extra thinner may be required to obtain application viscosity
- . Too much thinner results in lower sag resistance and slower cure
- · Thinner should be added after mixing the components

## Pot life

4 hours at 20°C (68°F)

#### Air spray

## **Recommended thinner**

**THINNER 91-92** 

## Volume of thinner

0 - 10%, 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 - 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** 

#### Volume of thinner

0 - 10%

## **Cleaning solvent**

• THINNER 90-53

## **ADDITIONAL DATA**

| Spreading rate and film thickness |                            |  |  |  |
|-----------------------------------|----------------------------|--|--|--|
| DFT                               | Theoretical spreading rate |  |  |  |
| 50 μm (2.0 mils)                  | 13.2 m²/l (529 ft²/US gal) |  |  |  |
| 75 µm (3.0 mils)                  | 8.8 m²/l (353 ft²/US gal)  |  |  |  |
| 100 μm (4.0 mils)                 | 6.6 m²/l (265 ft²/US gal)  |  |  |  |
| 150 μm (6.0 mils)                 | 4.4 m²/l (176 ft²/US gal)  |  |  |  |

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| Overcoating interval for DFT up to 150 μm (6.0 mils) |          |            |             |             |             |              |  |  |
|--|----------|------------|-------------|-------------|-------------|--------------|--|--|
| Overcoating with                                     | Interval | 5°C (41°F) | 10°C (50°F) | 20°C (68°F) | 30°C (86°F) | 40°C (104°F) |  |  |
| itself   | Minimum  | 6 hours    | 4 hours     | 2 hours     | 1 hour      | 30 minutes   |  |  |
|  | 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
- In clean exterior conditions, a maximum interval of 3 months can be tolerated, but in industrial or marine conditions this interval should be reduced to the practical minimum
- Before overcoating any visible surface contamination must be removed by sandwashing, sweep blasting or mechanical cleaning

| Curing time for DFT up to 50 µm (2.0 mils) |           |              |               |  |  |  |
|--|-----------|--------------|---------------|--|--|--|
| Substrate temperature                      | Full cure | Dry to touch | Dry to handle |  |  |  |
| 5°C (41°F)                                 | 20 days   | 1.5 hours    | 6 hours       |  |  |  |
| 10°C (50°F)                                | 15 days   | 1 hour       | 4 hours       |  |  |  |
| 15°C (59°F)                                | 10 days   | 40 minutes   | 3 hours       |  |  |  |
| 20°C (68°F)                                | 7 days    | 20 minutes   | 2 hours       |  |  |  |
| 30°C (86°F)                                | 5 days    | 10 minutes   | 1.5 hours     |  |  |  |

#### Note:

- Adequate ventilation must be maintained during application and curing

### **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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