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### **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 1999/13/EC, SED: max. 106.0 g/kg max. 299.0 g/l (approx. 2.5 lb/US gal)		
Recommended dry film thickness	50 - 150 μm (2.0 - 6.0 mils) depending on system		
Theoretical spreading rate	11.0 m <sup>2</sup> /l for 60 µm (441 ft <sup>2</sup> /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  $\mu$ m (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

### **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**

• 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**

CONVERSION TABLES	INFORMATION SHEET	1410
EXPLANATION TO PRODUCT DATA SHEETS	INFORMATION SHEET	1411
SAFETY INDICATIONS	INFORMATION SHEET	1430
SAFETY IN CONFINED SPACES AND HEALTH SAFETY, EXPLOSION HAZARD –	INFORMATION SHEET	1431
TOXIC HAZARD		
SAFE WORKING IN CONFINED SPACES	INFORMATION SHEET	1433
DIRECTIVES FOR VENTILATION PRACTICE	INFORMATION SHEET	1434
CLEANING OF STEEL AND REMOVAL OF RUST	INFORMATION SHEET	1490
SPECIFICATION FOR MINERAL ABRASIVES	INFORMATION SHEET	1491
RELATIVE HUMIDITY – SUBSTRATE TEMPERATURE – AIR TEMPERATURE	INFORMATION SHEET	1650

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