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) China GB 30981-2020 (tested) 290.0 g/l (approx. 2.4 lb/gal)
Recommended dry film thickness	50 - 150 μm (2.0 - 6.0 mils)
Theoretical spreading rate	8.8 m²/l for 75 μm (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 85:15

- 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

Induction time

None

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)								
itself								
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	Dry to touch	Dry to handle	Full cure			
5°C (41°F)	1.5 hours	6 hours	20 days			
10°C (50°F)	1 hour	4 hours	15 days			
15°C (59°F)	40 minutes	3 hours	10 days			
20°C (68°F)	20 minutes	2 hours	7 days			
30°C (86°F)	10 minutes	1.5 hours	5 days			

Note: Adequate ventilation must be maintained during application and curing (please refer to INFORMATION SHEETS 1433 and 1434)

SAFETY PRECAUTIONS

- For paint and recommended thinners see INFORMATION SHEETS 1430, 1431 and relevant Material Safety Data Sheets
- 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.

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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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