DESCRIPTION

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

PRINCIPAL CHARACTERISTICS

- · High build anticorrosive zinc epoxy primer
- · Designed as a system primer for various paint systems
- · Quick-drying, can be overcoated after a short interval
- Complies with the compositional requirements of SSPC-Paint 20, Level 3

COLOR AND GLOSS LEVEL

- · Gray, redbrown
- 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	66 ± 2%			
VOC (Supplied)	Directive 2010/75/EU, SED: max. 120.0 g/kg max. 286.0 g/l (approx. 2.4 lb/US gal) China GB 30981-2020 (tested) 316.0 g/l (approx. 2.6 lb/gal)			
Recommended dry film thickness	60 - 150 μm (2.4 - 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 hours			
Overcoating Interval	Minimum: 6 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

RECOMMENDED SUBSTRATE CONDITIONS AND TEMPERATURES

Immersion exposure

- Steel; shot blast cleaned to ISO-Sa2½, blasting profile 40 70 μ m (1.6 2.8 mils)
- Steel with approved zinc silicate shop primer; sweep blasted to SPSS-Ss

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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; sweep blasted to SPSS-Ss or power tool cleaned to SPSS-Pt3

Substrate temperature and application conditions

- Substrate temperature during application and curing should be above 5°C (41°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 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

8 hours at 20°C (68°F)

Air spray

Recommended thinner

THINNER 91-92

Volume of thinner

5 - 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 - 10%, 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 ² /l (265 ft ² /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	10°C (50°F)	20°C (68°F)	30°C (86°F)	40°C (104°F)		
subsequent coating	Minimum	10 hours	6 hours	4 hours	3 hours		
	Maximum	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
- An interval of several months can be allowed under clean interior exposure conditions
- Before overcoating any visible surface contamination must be removed by high-pressure water cleaning, sand washing, 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			
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 hours	3 hours	7 days			
30°C (86°F)	1 hour	1.5 hours	5 days			

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 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

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