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NORTH • SOUTH EAST • MIDLANDS • NORTH WEST • HULL • SCOTLAND

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	Тwo	
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 ² /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



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

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.)



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 m²/l (265 ft²/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



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 EXPLANATION TO PRODUCT DATA SHEETS	INFORMATION SHEET INFORMATION SHEET	1410 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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