DESCRIPTION

Two component high solids polyamide cured recoatable zinc phosphate epoxy primer/coating

PRINCIPAL CHARACTERISTICS

- · General-purpose epoxy primer/coating for steel and concrete structures in atmospheric exposure
- · Can be recoated with various two-component and conventional coatings, even after long weathering periods
- Free from lead- and chromate-containing pigments
- · Excellent rust preventing properties in industrial or coastal atmospheres
- · Tough, with long-term flexibility
- Cures at temperatures down to -5°C (23°F)
- Good adhesion to steel
- · Easy application, both by airless spray and brush

COLOR AND GLOSS LEVEL

- · A wide range of colors is available through PPG colornet tinting system
- Eggshell

BASIC DATA AT 20°C (68°F)

Data for mixed product			
Number of components	Two		
Mass density	1.4 kg/l (11.7 lb/US gal)		
Volume solids	73 ± 2%		
VOC (Supplied)	Directive 2010/75/EU, SED: max. 192.0 g/kg UK PG 6/23(92) Appendix 3: max. 277.0 g/l (approx. 2.3 lb/US gal)		
Recommended dry film thickness	75 - 150 μm (3.0 - 6.0 mils) depending on system		
Theoretical spreading rate	7.3 m²/l for 100 µm (293 ft²/US gal for 4.0 mils)		
Dry to touch	6 hours		
Overcoating Interval	Minimum: 8 hours Maximum: Unlimited		
Full cure after	4 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

Substrate conditions

- Steel; blast cleaned to ISO-Sa2½, blasting profile 40 70 μm (1.6 2.8 mils)
- Previous coat must be sound, dry and free from any contamination

Substrate temperature

- Substrate temperature during application and curing down to -5°C (23°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 paint 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
- · Thinner should be added after mixing the components

Induction time

Mixed product induction time		
Mixed product temperature	Induction time	
Above 10°C (50°F)	None	
Below 10°C (50°F)	20 minutes	

Pot life

4 hours at 20°C (68°F)

Note: See ADDITIONAL DATA - Pot life

Air spray

Recommended thinner

THINNER 91-92

Volume of thinner

0 - 10%, depending on required thickness and application conditions

Nozzle orifice

1.5 - 3.0 mm (approx. 0.060 - 0.110 in)

Nozzle pressure

0.3 - 0.4 MPa (approx. 3 - 4 bar; 44 - 58 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. 0.48 mm (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 - 5%

Cleaning solvent

THINNER 90-53

ADDITIONAL DATA

Spreading rate and film thickness		
DFT	Theoretical spreading rate	
75 μm (3.0 mils)	9.7 m²/l (390 ft²/US gal)	
100 μm (4.0 mils)	7.3 m²/l (293 ft²/US gal)	
150 μm (6.0 mils)	4.9 m²/l (195 ft²/US gal)	

Overcoating interval for DFT up to 150 μm (6.0 mils)							
Overcoating with	Interval	-5°C (23°F)	5°C (41°F)	10°C (50°F)	20°C (68°F)	30°C (86°F)	40°C (104°F)
itself and various two- pack epoxy coatings	Minimum	48 hours	20 hours	16 hours	8 hours	6 hours	4 hours
	Maximum	Unlimited	Unlimited	Unlimited	Unlimited	Unlimited	Unlimited
polyurethane topcoat	Minimum	4 days	40 hours	32 hours	16 hours	12 hours	8 hours
	Maximum	Unlimited	Unlimited	Unlimited	Unlimited	Unlimited	Unlimited

Note: Surface should be dry and free from any contamination

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Curing time for DFT up to 150 µm (6.0 mils)			
Substrate temperature	Dry to handle	Full cure	
-5°C (23°F)	24 hours - 48 hours	14 days	
0°C (32°F)	24 hours - 30 hours	10 days	
5°C (41°F)	18 hours - 24 hours	8 days	
10°C (50°F)	18 hours	6 days	
15°C (59°F)	12 hours	5 days	
20°C (68°F)	8 hours	4 days	
30°C (86°F)	6 hours	3 days	
40°C (104°F)	4 hours	48 hours	

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

Pot life (at application viscosity)		
Mixed product temperature	Pot life	
10°C (50°F)	8 hours	
15°C (59°F)	5 hours	
20°C (68°F)	4 hours	
30°C (86°F)	2.5 hours	
35°C (95°F)	2 hours	

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

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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
SURFACE PREPARATION OF CONCRETE (FLOORS)	INFORMATION SHEET	1496
RELATIVE HUMIDITY – SUBSTRATE TEMPERATURE – AIR TEMPERATURE	INFORMATION SHEET	1650

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