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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 1999/13/EC, 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 \(\text{Im} \) (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

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 EXPLANATION TO PRODUCT DATA SHEETS SAFETY INDICATIONS 	INFORMATION SHEET INFORMATION SHEET INFORMATION SHEET	1410 1411 1430
 SAFETY IN CONFINED SPACES AND HEALTH SAFETY, EXPLOSION HAZARD – TOXIC HAZARD 	INFORMATION SHEET	1431
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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