DESCRIPTION

Two-component, high-build, polyamide-cured zinc phosphate epoxy primer/coating

PRINCIPAL CHARACTERISTICS

- General-purpose epoxy primer/coating for atmospheric conditions
- Fast-curing
- · Suitable for the protection of steel and concrete
- Easy application by airless spray
- Recoatable with most two-component epoxy and polyurethane coatings
- Tough, with long-term flexibility

COLOR AND GLOSS LEVEL

- · A wide range of colors and MIO light available
- Semi-gloss

Notes:

- Epoxy coatings will chalk and fade upon exposure to sunlight, elevated temperatures, or chemical exposure.
 Discoloration and normal chalking do not impact performance. Light colors will darken over time. Some batch-to-batch variation in color is to be expected. Color matches are approximate.
- The addition of a UV stable topcoat should be considered when using epoxy coatings in cosmetic areas

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	70 ± 2%
VOC (Supplied)	Directive 2010/75/EU, SED: max. 224.0 g/kg UK PG 6/23(92) Appendix 3: max. 322.0 g/l (approx. 2.7 lb/US gal) EUR Directive: 2004/42/IIA(j)(500) 411 g/l
Recommended dry film thickness	75 - 150 µm (3.0 - 6.0 mils) depending on system
Theoretical spreading rate	9.3 m 2 /l for 75 μ m (374 ft 2 /US gal for 3.0 mils) 4.7 m 2 /l for 150 μ m (187 ft 2 /US gal for 6.0 mils)
Dry to touch	3 hours
Overcoating Interval	Minimum: 4 hours Maximum: 6 months
Full cure after	3 days
Shelf life	Base: at least 24 months when stored cool and dry Hardener: at least 24 months when stored cool and dry

Notes:



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- See ADDITIONAL DATA Spreading rate and film thickness
- See ADDITIONAL DATA Overcoating intervals
- See ADDITIONAL DATA Curing time

RECOMMENDED SUBSTRATE CONDITIONS AND TEMPERATURES

Substrate conditions

Steel; blast cleaned to ISO-Sa2½, blasting profile 40 – 70 μm (1.6 – 2.8 mils)

Concrete

- Dried for at least 28 days in good ventilation conditions
- Moisture content should not exceed 4.5%
- Concrete must be free from laitance and any contamination
- · Rough surface; eventually abraded by power tool or diamond abrading tool

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 3:1

- 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

Table of Induction time

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

Pot life

6 hours at 20°C (68°F)

Note:

- See ADDITIONAL DATA - Pot life

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Air spray

Recommended thinner

THINNER 91-92

Volume of thinner

5 - 15%, 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.)

Airless spray

Recommended thinner

THINNER 91-92

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

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ADDITIONAL DATA

Spreading rate and film thickness			
DFT Theoretical spreading rate			
75 µm (3.0 mils)	9.3 m²/l (374 ft²/US gal)		
100 μm (4.0 mils)	7.0 m²/l (281 ft²/US gal)		
150 µm (6.0 mils)	4.7 m²/l (187 ft²/US gal)		

Overcoating interval for DFT up to 75 μm (3.0 mils)						
Overcoating with	Interval	5°C (41°F)	10°C (50°F)	20°C (68°F)	30°C (86°F)	40°C (104°F)
various two-pack epoxy and polyurethane coatings	Minimum Maximum	12 hours 6 months	6 hours 6 months	3 hours 6 months	2 hours 6 months	1 hour 6 months

Overcoating interval for DFT up to 150 μm (6.0 mils)						
Overcoating with	Interval	5°C (41°F)	10°C (50°F)	20°C (68°F)	30°C (86°F)	40°C (104°F)
various two-pack epoxy and polyurethane coatings	Minimum Maximum	12 hours 6 months	6 hours 6 months	4 hours 6 months	3 hours 6 months	2 hours 6 months

Note:

- The surface must be dry and free from all contaminations (oil, grease, chalking, etc...) which would require cleaning and/or abrading

Curing time for DFT up to 75 μm (3.0 mils)			
Substrate temperature	Dry to touch	Dry to handle	Full cure
5°C (41°F)	12 hours	16 hours	7 days
10°C (50°F)	7 hours	10 hours	5 days
20°C (68°F)	3 hours	5 hours	3 days
30°C (86°F)	1.5 hours	3 hours	60 hours
40°C (104°F)	1 hour	2 hours	36 hours

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Curing time for DFT up to 150 μm (6.0 mils)			
Substrate temperature	Dry to touch	Dry to handle	Full cure
5°C (41°F)	14 hours	18 hours	8 days
10°C (50°F)	8 hours	12 hours	6 days
20°C (68°F)	4 hours	6 hours	4 days
30°C (86°F)	2 hours	4 hours	3 days
40°C (104°F)	1 hour	3 hours	48 hours

Note:

- Adequate ventilation must be maintained during application and curing

Pot life (at application viscosity)		
Mixed product temperature	Pot life	
10°C (50°F)	10 hours	
20°C (68°F)	6 hours	
30°C (86°F)	3 hours	

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 & 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

Information sheet | Explanation of product data sheets

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