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#### **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 m²/l for 75 $\mu$ m (374 ft²/US gal for 3.0 mils) 4.7 m²/l for 150 $\mu$ m (187 ft²/US gal for 6.0 mils)			
Dry to touch	3 hours			
Overcoating Interval	Minimum: 4 hours Maximum: 6 months			
Full cure after	3 days			

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Data for mixed product			
	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

#### **Substrate conditions**

• Steel; blast cleaned to ISO-Sa2½, blasting profile  $40 - 70 \mu m$  (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 75:25 (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

#### **Induction time**

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

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## Pot life

6 hours at 20°C (68°F)

Note: See ADDITIONAL DATA - Pot life

### 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		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		3 hours 6 months	2 hours 6 months

Note: Surface should be dry and free from any contamination

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	

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

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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 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

1411

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