DESCRIPTION

Two-component, high-build, micaceous iron oxide-pigmented polyamide-cured epoxy coating

PRINCIPAL CHARACTERISTICS

- General-purpose epoxy buildcoat in protective coating systems, for steel and concrete structures exposed to atmospheric land or marine conditions
- · Easy application by airless spray

COLOR AND GLOSS LEVEL

· Gray, redbrown (low metallic sheen)

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	1.9 kg/l (15.9 lb/US gal)
Volume solids	80 ± 2%
VOC (Supplied)	Directive 2010/75/EU, SED: max. 126.0 g/kg UK PG 6/23(92) Appendix 3: max. 240.0 g/l (approx. 2.0 lb/US gal)
Recommended dry film thickness	40 - 150 μm (1.6 - 6.0 mils) depending on system
Theoretical spreading rate	8.0 m 2 /I for 100 μ m (321 ft 2 /US gal for 4.0 mils)
Dry to touch	3 hours
Full cure after	7 days
Shelf life	Base: at least 12 months when stored cool and dry Hardener: at least 12 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

- Suitable primer must be dry and free from any contamination
- Surface of previous coat should be sufficiently roughened if necessary
- · When applied to zinc silicate, a mist coat and full coat technique is required

Substrate temperature

- 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 (37°F) above dew point
- Relative humidity during application and curing should not exceed 85%

INSTRUCTIONS FOR USE

Mixing ratio by volume: base to hardener 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 and slower cure
- · Thinner should be added after mixing the components

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 - 10%

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

5 - 10%

Nozzle orifice

Approx. 0.48 - 0.53 mm (0.019 - 0.021 in)

Nozzle pressure

14.5 - 15.0 MPa (approx. 145 - 150 bar; 2100 - 2176 p.s.i.)

Brush/roller

- · Application by roller will leave roller marking and is suitable for minimum DFT requirements only
- A roller suitable for epoxy application must be used

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)	10.7 m²/l (428 ft²/US gal)	
100 μm (4.0 mils	8.0 m ² /l (321 ft ² /US gal)	
150 µm (6.0 mils)	5.3 m²/l (214 ft²/US gal	

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Overcoating interval for DFT up to 150 µm (6.0 mils)					
Overcoating with	Interval	20°C (68°F)	30°C (86°F)	40°C (104°F)	
various two-pack	Minimum	10 hours	8 hours	6 hours	
polyurethane coatings	Maximum	3 months	2 months	1 month	
polyurethane topcoat	Minimum	24 hours	16 hours	12 hours	
	Maximum	3 months	2 months	1 month	

Notes:

- Actual maximum overcoating times will be influenced by local conditions
- To ensure optimal adhesion of the next coat, 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 150 µm (6.0 mils)				
Substrate temperature	Dry to handle	Full cure		
20°C (68°F)	10 hours	4 days		
30°C (86°F)	7 hours	3 days		
40°C (104°F)	5 hours	48 hours		

Pot life (at application viscosity)		
Mixed product temperature	Pot life	
20°C (68°F)	6 hours	
30°C (86°F)	3 hours	
40°C (104°F)	2 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
- · See Safety Data Sheet and product label for complete safety and precaution requirements

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.

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REFERENCES

Information sheet | Explanation of product data sheets

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