DESCRIPTION

Two-component, high solids, high-build, 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
- Excellent durability
- Can be recoated with various two-component and conventional coatings, even after long weathering periods
- Easy application by airless spray
- · Available in MIO or conventional pigmented grade

COLOR AND GLOSS LEVEL

- · MIO and a selected range of colors
- Flat

BASIC DATA AT 20°C (68°F)

Data for mixed product				
Number of components	Two			
Mass density	1.5 kg/l (12.5 lb/US gal), depending on color MIO: 1.9 kg/l (15.9 lb/US gal)			
Volume solids	80 ± 2%			
VOC (Supplied)	Directive 1999/13/EC, 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	75 - 200 μm (3.0 - 8.0 mils) depending on system			
Theoretical spreading rate	10.7 m²/l for 75 μm (428 ft²/US gal for 3.0 mils) 3 hours			
Dry to touch				
Overcoating Interval	Minimum: 8 hours Maximum: Extended			
Full cure after	7 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

- · Suitable primer must be dry and free from any contamination
- · 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 (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 and slower cure
- Thinner should be added after mixing the components

Induction time

None

Pot life

6 hours at 20°C (68°F)

Note: See ADDITIONAL DATA - Pot life

Airless spray

Recommended thinner

THINNER 91-92

Volume of thinner

0 - 10%, 30 - 40% when mist coat applied

Nozzle orifice

Approx. 0.46 - 0.53 mm (0.018 - 0.021 in)

Nozzle pressure

20.0 - 25.0 MPa (approx. 200 - 250 bar; 2901 - 3626 p.s.i.)

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Brush/roller

- Application by brush may show brush marking, due to the thixatropic nature of the paint and is most suitable to small areas, tight angle areas or for stripe coating or touch-up
- · 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)	
150 μm (6.0 mils)	5.3 m²/l (214 ft²/US gal)	
200 μm (8.0 mils)	4.0 m ² /l (160 ft ² /US gal)	

Overcoating interval for DFT up to 200 μm (8.0 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	Minimum	36 hours	24 hours	8 hours	6 hours	4 hours
and polyurethane coatings	Maximum	Extended	Extended	Extended	Extended	Extended

Notes:

- This product has an unlimited overcoating interval provided the surface is free from chalking and other contaminations
- The optimum intercoat adhesion is obtained when the subsequent coating is applied before the full cure time of the previous coating has elapsed
- In cases of exposure to direct sunlight or when the surface is contaminated it is recommended that the surface be cleaned and roughened to ensure good adhesion of the subsequent coating.

Curing time for DFT up to 200 µm (8.0 mils)				
Substrate temperature	Dry to touch	Dry to handle	Full cure	
5°C (41°F)	12 hours	30 hours	20 days	
10°C (50°F)	6 hours	24 hours	14 days	
15°C (59°F)	4 hours	10 hours	10 days	
20°C (68°F)	3 hours	8 hours	7 days	
30°C (86°F)	2 hours	6 hours	5 days	
40°C (104°F)	1.5 hours	4 hours	3 days	

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)	12 hours	
15°C (59°F)	10 hours	
20°C (68°F)	6 hours	
25°C (77°F)	4 hours	
30°C (86°F)	3 hours	
40°C (104°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.

REFERENCES

•	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
•	CONVERSION TABLES	INFORMATION SHEET	1410
•	RELATIVE HUMIDITY – SUBSTRATE TEMPERATURE – AIR TEMPERATURE	INFORMATION SHEET	1650

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