DESCRIPTION

Two-component, solvent-free amine cured epoxy coating

PRINCIPAL CHARACTERISTICS

- · Tank coating for crude oil and aliphatic petroleum products
- · Rapid cure and return-to-service
- · Good resistance to various chemicals
- Can be applied by heavy-duty, single-feed, airless spray equipment (60:1)
- · Excellent anticorrosive properties and water resistance
- · Good abrasion resistance
- · A clear (semi-transparent) version is available for systems reinforced with chopped glass fibers or glass fiber mats
- Meets the requirements of El 1541 2.2 (coating systems for aviation fuel storage tanks and pipes)

COLOR AND GLOSS LEVEL

- Gray, offwhite, clear (semi-transparent)
- Gloss

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	100%	
VOC (Supplied)	UK PG 6/23(92) Appendix 3: max. 20.0 g/l (approx. 0.2 lb/US gal)	
Recommended dry film thickness	300 - 600 μm (12.0 - 24.0 mils) depending on system	
Theoretical spreading rate	3.3 m²/l for 300 μm (134 ft²/US gal for 12.0 mils) 1.7 m²/l for 600 μm (67 ft²/US gal for 24.0 mils)	
Dry to touch	8 hours	
Overcoating Interval	Minimum: 12 hours Maximum: 6 months	
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 Overcoating intervals
- See ADDITIONAL DATA Curing time

RECOMMENDED SUBSTRATE CONDITIONS AND TEMPERATURES

Substrate conditions

- Steel; blast cleaned to ISO-Sa2½, blasting profile 50 – 100 μm (2.0 – 4.0 mils)

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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 80:20 (4:1)

- The temperature of the mixed base and hardener should preferably be above 20°C (68°F)
- · No thinner should be added

Pot life

45 minutes at 20°C (68°F)

Note: See ADDITIONAL DATA - Pot life

Airless spray

 Use heavy-duty, single-feed, airless spray equipment, preferably 60:1 pump ratio and suitable high-pressure hoses/inline heating or insulated hoses may be necessary to avoid cooling down of paint in hoses at low air temperature

Recommended thinner

No thinner should be added

Nozzle orifice

Approx. 0.43 - 0.53 mm (0.017 - 0.021 in)

Nozzle pressure

21.0 MPa (approx. 210 bar; 3046 p.s.i.)

Brush/roller

· Brush: for stripe coating and spot repair only

Recommended thinner

No thinner should be added

Cleaning solvent

THINNER 90-53 or THINNER 90-83

Note: All application equipment must be cleaned immediately after use. Paint inside the spraying equipment must be removed before the pot life has been expired.

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ADDITIONAL DATA

Spreading rate and film thickness		
DFT	Theoretical spreading rate	
300 μm (12.0 mils)	3.3 m²/l (131 ft²/US gal)	
600 µm (24.0 mils)	1.7 m ² /l (67 ft ² /US gal)	

Overcoating interval for DFT up to 600 μm (24.0 mils)						
Overcoating with	Interval	5°C (41°F)	10°C (50°F)	20°C (68°F)	30°C (86°F)	40°C (104°F)
itself	Minimum	36 hours	20 hours	12 hours	5 hours	2 hours
	Maximum	6 months	6 months	6 months	4 months	2 months

Note: Surface must be dry and free from any contamination

Curing time for DFT up to 600 µm (24.0 mils)			
Substrate temperature	Service- water immersion		
5°C (41°F)	3 days		
10°C (50°F)	45 hours		
20°C (68°F)	18 hours		
30°C (86°F)	6 hours		

Note: Time to Service- water immersion allows for tank test with fresh, brackish or sea water. Chemical solutions in water (acids, bases or fertilizer for instance) require full cure

Curing time for DFT up to 600 µm (24.0 mils)			
Substrate temperature	Dry to walk on	Resistant to vehicular service	
5°C (41°F)	58 hours	N/A	
10°C (50°F)	36 hours	N/A	
20°C (68°F)	14 hours	N/A	
30°C (86°F)	5 hours	N/A	

Note: At the dry to walk on time care is still required to not exert local peak or static pressure. A slight recoverable imprint may be visible but this does not affect the coating performance. Dry to walk on time allows for coating inspection including holiday testing.

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Curing time for DFT up to 600 µm (24.0 mils)			
Substrate temperature	Dry to handle	Minimum cure time for purely aliphatic petroleum product (see note)	Minimum cure time for all other chemicals
5°C (41°F)	36 hours	4 days	15 days
10°C (50°F)	24 hours	60 hours	10 days
20°C (68°F)	12 hours	30 hours	5 days
30°C (86°F)	4 hours	10 hours	60 hours

Note: At the cure time for purely aliphatic petroleum products, crude oil, clean petroleum products / fuels and bio-diesel can be loaded. Gasoline/alcohol blends are not included in purely aliphatic petroleum products. Please contact your PPG representative for further details

Pot life (at application viscosity)		
Mixed product temperature	Pot life	
20°C (68°F)	45 minutes	
30°C (86°F)	20 minutes	

Note: Due to exothermic reaction, temperature during and after mixing may increase

SAFETY PRECAUTIONS

- Although this is a solvent-free paint, care should be taken to avoid inhalation of spray mist, as well as contact between the
 wet paint and exposed skin or eyes
- For paint and recommended thinners see INFORMATION SHEETS 1430, 1431 and relevant Material Safety Data Sheets

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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