DESCRIPTION

Two-component, solvent-free, amine-cured modified phenolic epoxy coating

PRINCIPAL CHARACTERISTICS

- Tank coating for crude oil and aliphatic petroleum products
- 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)

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 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/ in-line 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
- All application equipment must be cleaned immediately after use
- Paint inside the spraying equipment must be removed before the pot life has been expired

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 m²/l (67 ft²/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

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	
5°C (41°F)	58 hours	
10°C (50°F)	36 hours	
20°C (68°F)	14 hours	
30°C (86°F)	5 hours	

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/spark testing.

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 (104°F)	20 minutes	

Note:

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



SAFETY PRECAUTIONS

- See Safety Data Sheet and product label for complete safety and precaution requirements
- 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

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

- Guide | NOVAGUARD 615 | Chemical resistance guide
- Guide | Tank maintenance | Our guide to the economical repair of corroded tank bottoms
- · Information sheet | Explanation of product data sheets

WARRANTY

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