DESCRIPTION

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

PRINCIPAL CHARACTERISTICS

- One-coat system direct to metal for pipe internals and externals
- Excellent resistance to cathodic protection
- Excellent resistance to crude oil up to 120°C (250°F)
- Glossy and smooth appearance
- · Reduced explosion risk and fire hazard
- Fast-curing, especially when applied to preheated substrates
- Can be applied to rotating pipes at a dry-film thickness (DFT) up to 600 μm (24.0 mils) at a substrate temperature up to 90°C (194°F)

COLOR AND GLOSS LEVEL

- Dark brown
- Gloss

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)
Volume solids	100%
VOC (Supplied)	Directive 2010/75/EU, SED: max. 83.0 g/kg max. 125.0 g/l (approx. 1.0 lb/US gal)
Recommended dry film thickness	600 - 1000 μm (24.0 - 40.0 mils)
Theoretical spreading rate	1.7 m²/l for 600 µm (67 ft²/US gal for 24.0 mils) 1.0 m²/l for 1000 µm (40 ft²/US gal for 40.0 mils)
Dry to touch	30 minutes
Overcoating Interval	Minimum: 3 hours Maximum: 1 month
Full cure after	48 hours
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

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RECOMMENDED SUBSTRATE CONDITIONS AND TEMPERATURES

Substrate conditions

Steel; blast cleaned to a minimum of ISO-Sa2½ (SSPC SP-10), blasting profile 50 - 100 µm (2.0 - 4.0 mils)

Substrate temperature and application conditions

- Substrate temperature during application and curing should be above 15°C (59°F)
- Substrate temperature during application and curing should be at least 3°C (5°F) above dew point
- Substrate temperature during automatic application between 40°C (104°F) and 60°C (140°F) is recommended, which will ensure good curing and appearance

INSTRUCTIONS FOR USE

Mixing ratio by volume: base to hardener 4:1

• Application with twin-feed hot airless spray equipment

Induction time

0 minute

Note:

- No induction time required

Pot life

5 minutes at 50°C (122°F)

Note:

- See ADDITIONAL DATA - Pot life

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Airless spray

- · Twin-feed, hot airless spray
- Pumping viscosity is achieved at 40°C (104°F) to 60°C (140°F)
- Temperature in the mixing unit must be between 40°C (104°F) and 70°C (158°F)

Recommended thinner

No thinner should be added

Nozzle orifice

Approx. 0.48 - 0.78 mm (0.019 - 0.031 in)

Nozzle pressure

At 40°C (104°F) paint temperature min. 19.0 MPa (approx. 190 bar; 2756 p.s.i.). At 60°C (140°F) min. 15.0 MPa (approx. 150 bar; 2176 p.s.i.)

Note:

- Sag resistance depends on both paint and substrate temperature. Film build can be optimized by applying multiple passes wet-in-wet after allowing the previous pass to set

Brush/roller

· Only for touch-up and spot repair

Recommended thinner

No thinner should be added

Cleaning solvent

• THINNER 90-83 (preferred) or THINNER 90-53

Cleaning procedure

- · 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	
600 μm (24.0 mils)	1.7 m²/l (67 ft²/US gal)	
800 µm (32.0 mils)	1.3 m²/l (50 ft²/US gal)	
1000 μm (40.0 mils)	1.0 m ² /l (40 ft ² /US gal)	

Overcoating interval for DFT up to 600 µm (24.0 mils)				
Overcoating with	Interval	20°C (68°F)	30°C (86°F)	40°C (104°F)
itself	Minimum	3 hours	1.5 hours	1 hour
	Maximum	1 month	1 month	1 month

Notes:

- Adequate ventilation must be maintained during application and curing
- When exposed to sunlight maximum interval is 2 days for all mentioned temperatures

Curing time for DFT up to 600 µm (24.0 mils)				
Substrate temperature	Dry to handle	Full cure		
20°C (68°F)	3 hours	48 hours		
30°C (86°F)	1.5 hours	24 hours		
40°C (104°F)	1 hour	12 hours		
50°C (122°F)	40 minutes	6 hours		
60°C (140°F)	30 minutes	3 hours		
70°C (158°F)	20 minutes	2 hours		
90°C (194°F)	10 minutes	1 hour		

Note:

- Adequate ventilation must be maintained during application and curing

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Pot life (at application viscosity)			
Mixed product temperature	Pot life		
20°C (68°F)	20 minutes		
50°C (122°F)	5 minutes		
60°C (140°F)	4 minutes		
70°C (158°F)	3 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
- See Safety Data Sheet and product label for complete safety and precaution requirements
- Ventilation should be provided in confined spaces to maintain good visibility

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

Information sheet | Explanation of product data sheets

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