DESCRIPTION

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

PRINCIPAL CHARACTERISTICS

- · Rapid cure and return-to-service
- Cures at temperatures down to -7°C (20°F)
- Good chemical resistance against a wide range of chemicals and solvents
- Smooth finish and light color for easy cleaning and inspection
- Hydrocarbon immersion after only 1 day at 20°C (68°F)
- Qualification for MIL-PRF-23236D Type VII: Class 5/18, 7/18, 17/18, 19/18
- Meets NSF/ANSI Standard 61 for potable water when applied and used as described on http://info.nsf.org/

COLOR AND GLOSS LEVEL

- Cream OAP (Off-white base + Yellow cure), Green OAP (Green base + Neutral cure), Red Oxide OAP (Red oxide base + Neutral cure)
 Neutral cure), Off-white OAP (Off-white base + Neutral cure)
- · Semi-gloss

BASIC DATA AT 20°C (68°F)

Data for mixed product	
Number of components	Two
Volume solids	100%
VOC (Supplied)	EPA Method 24: 61.0 g/ltr (0.5 lb/USgal)
Recommended dry film thickness	20.0 - 40.0 mils (500 - 1000 μm) depending on system
Theoretical spreading rate	80 ft²/US gal for 20.0 mils (2.0 m²/l for 500 μm)
Dry to touch	2 hours
Overcoating Interval	Minimum: 6 hours Maximum: 28 days
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:

- Volume solids based on oven solids testing is 93%
- 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

Steel; blast cleaned to a minimum of SSPC-SP10 or ISO-SA2½, blasting profile 50 – 125 μm (5.0 mils) (2.0 – 5.0 mils)

Substrate temperature and application conditions

- Substrate temperature during application and curing down to -7°C (20°F) is acceptable; provided the substrate is free
 from ice and dry
- 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 75°F (24°C)
- At lower temperature, the viscosity will be too high for spray application
- No thinner should be added
- For recommended application instructions, see working procedure

Induction time

None

Airless spray

- · Use heated, airless spray, plural-component equipment
- In-line heating or insulated hoses may be necessary to avoid cooling down of paint in hoses at low air temperature
- · Length of hoses should be as short as possible

Recommended thinner

No thinner should be added

Nozzle orifice

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

Nozzle pressure

3500 - 4250 p.s.i. (approx. 242 - 293 bar; 24.1 - 29.3 MPa)

Notes:

- For optimal flow and leveling on horizontal areas having a substrate temperature below 20°C (68°F), the paint temperature (spray fan) should be kept typically below 30°C (86°F). The distance between the spray gun and the substrate should be low, for example less than 50 cm (20 inch)
- For optimal flow and sag resistance on vertical areas having a substrate temperature above 20°C (68°F), the paint temperature (spray fan) should be kept typically above 30°C (86°F)

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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.

ADDITIONAL DATA

Spreading rate and film thickness		
DFT	Theoretical spreading rate	
20.0 mils (500 μm)	80 ft²/US gal (2.0 m²/l)	
30.0 mils (750 μm)	53 ft²/US gal (1.3 m²/l)	

Measuring wet film thickness

- A difference is often obtained between the measured apparent WFT and the real applied WFT. This is due to the thixotropy and the surface tension of the paint, which retards the release of air, trapped in the paint film for some time
- Polymer shrinkage will also affect the final dry film thickness reading. A practical volume solids of 93% is therefore used for estimation of spreading rate

Measuring dry film thickness

 The DFT should be measured using a calibration foil of known thickness placed in between the coating and the measuring device

Overcoating interval for DFT up to 1000 μm (40.0 mils)							
Overcoating with	Interval	-5°C (23°F)	0°C (32°F)	10°C (50°F)	20°C (68°F)	30°C (86°F)	40°C (104°F)
itself	Minimum	48 hours	24 hours	12 hours	6 hours	4 hours	3 hours
	Maximum	28 days	28 days	28 days	22.5 days	14 days	7 days

Note: Surface should be dry and free from any contamination and ice

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Curing time for DFT up to 1000 µm (40.0 mils)				
Substrate temperature	Dry to handle	Full cure		
40°F (4°C)	18 hours	5 days		
50°F (10°C)	12 hours	3 days		
68°F (20°C)	6 hours	48 hours		
86°F (30°C)	4.5 hours	30 hours		
104°F (40°C)	less than 3 hours	24 hours		

Notes:

- Adequate ventilation must be maintained during application and curing (please refer to INFORMATION SHEETS 1433 and 1434)
- For storage and transport of drinking water the recommended working procedure should be followed
- Holiday test can be done after dry to handle time

Pot life (at application viscosity)		
Mixed product temperature	Pot life	
77°F (25°C)	15 minutes	
110°F (43°C)	7 minutes	

Note: It is recommended to use plural airless equipment due to the short pot life

Product Qualifications

 Compliant with El 1541, Performance requirements for protective coating systems used in aviation fuel storage tanks and piping

SAFETY PRECAUTIONS

- For paint and recommended thinners see INFORMATION SHEETS 1430, 1431 and relevant Material Safety Data Sheets
- 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
- · No solvent present; however, spray mist is not harmless, a fresh air mask should be used during spraying
- Ventilation should be provided in confined spaces to maintain good visibility

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.

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REFERENCES

 CONVERSION TABLES EXPLANATION TO PRODUCT DATA SHEETS SAFETY INDICATIONS 	INFORMATION SHEET INFORMATION SHEET INFORMATION SHEET	1410 1411 1430
SAFETY IN CONFINED SPACES AND HEALTH SAFETY, EXPLOSION HAZARD – TOXIC HAZARD	INFORMATION SHEET	1431
SAFE WORKING IN CONFINED SPACES DIRECTIVES FOR VENTILATION PRACTICE	INFORMATION SHEET	1433 1434
 CLEANING OF STEEL AND REMOVAL OF RUST SPECIFICATION FOR MINERAL ABRASIVES RELATIVE HUMIDITY - SUBSTRATE TEMPERATURE - AIR TEMPERATURE 	INFORMATION SHEET INFORMATION SHEET INFORMATION SHEET	1490 1491 1650
		.500

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