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DESCRIPTION

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

PRINCIPAL CHARACTERISTICS

- One-coat system direct to metal for pipe externals
- · Suitable for e.g. bell holing jobs
- · Resistant to well designed cathodic protection
- · Glossy and smooth appearance
- · Can be applied by heavy-duty, twin-feed, hot, airless spray equipment
- Can be applied at a substrate temperature of 90°C (194°F)
- · Reduced explosion risk and fire hazard
- · Meets the requirements of EN10289

COLOR AND GLOSS LEVEL

- Redbrown
- 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)	Directive 1999/13/EC, SED: max. 108.0 g/kg max. 146.0 g/l (approx. 1.2 lb/US gal)
Recommended dry film thickness	600 - 1500 μm (24.0 - 60.0 mils) depending on system
Theoretical spreading rate	1.7 m ² /l for 600 µm (67 ft ² /US gal for 24.0 mils)
Dry to touch	6 hours
Overcoating Interval	Minimum: 24 hours Maximum: 2 months
Full cure after	5 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

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

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)

- When mixing, the temperature of the base and hardener should be at least 20°C (68°F)
- · At lower temperature, the viscosity will be too high for spray application
- · No thinner should be added

Induction time

None

Pot life

1 hour at 20°C (68°F)

Note: See ADDITIONAL DATA - Pot life

Airless spray

Recommended thinner

No thinner should be added

Nozzle orifice

Approx. 0.53 mm (0.021 in)

Nozzle pressure

At 20°C (68°F) paint temperature min. 28.0 MPa (approx. 280 bar; 4061 p.s.i.). At 30°C (86°F) min. 22.0 MPa (approx. 220 bar; 3191 p.s.i.)

Notes:

- 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
- Length of hoses should be as short as possible



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Brush/roller

· 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.

ADDITIONAL DATA

Spreading rate and film thickness		
DFT	Theoretical spreading rate	
600 μm (24.0 mils)	1.7 m ² /l (67 ft ² /US gal)	
1000 μm (40.0 mils)	1.0 m²/l (40 ft²/US gal)	
1500 μm (60.0 mils)	0.7 m ² /l (27 ft ² /US gal)	

Note: Maximum DFT when brushing: 150 µm (6.0 mils)

Measuring wet film thickness

- · A deviation is often obtained between the measured apparent WFT and the real applied WFT
- 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
- Recommendation is to apply a WFT, which is equal to the specified DFT plus 60 µm (2.4 mils)

Maximum dry film thickness

- Because of low initial hardness the DFT cannot be measured within some days, due to the penetration of the measuring device into the soft paint film
- 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 600 μm (24.0 mils)					
Overcoating with	Interval	5°C (41°F)	10°C (50°F)	20°C (68°F)	30°C (86°F)
itself for repair only	Minimum	3.5 days	36 hours	24 hours	12 hours
	Maximum	3 months	3 months	2 months	1 month

Note: Surface should be dry and free from any contamination

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Curing time for DFT up to 600 µm (24.0 mils)			
Substrate temperature	Dry to handle	Full cure	
5°C (41°F)	60 hours	15 days	
10°C (50°F)	30 hours	7 days	
20°C (68°F)	16 hours	5 days	
30°C (86°F)	10 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	
20°C (68°F)	1 hour	
30°C (86°F)	45 minutes	
40°C (104°F)	20 minutes	

Notes:

- Due to exothermic reaction, temperature during and after mixing may increase
- It is recommended to use plural airless equipment due to the short pot life when paint temperature is above 40°C (104°F)

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
- · 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	INFORMATION SHEET	1410
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
CLEANING OF STEEL AND REMOVAL OF RUST	INFORMATION SHEET	1490
SPECIFICATION FOR MINERAL ABRASIVES	INFORMATION SHEET	1491
SURFACE PREPARATION OF STEEL PIPES AND FITTINGS SHOP APPLICATION	INFORMATION SHEET	1492
INTERNAL CHEMICAL CLEANING OF STEEL PIPES IN-SITU APPLICATION	INFORMATION SHEET	1493
RELATIVE HUMIDITY – SUBSTRATE TEMPERATURE – AIR TEMPERATURE	INFORMATION SHEET	1650

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