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DESCRIPTION

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

PRINCIPAL CHARACTERISTICS

- · One-coat tank coating system
- Excellent resistance to crude oil up to 120°C (250°F)
- Suitable for storage of unleaded gasolines blended up to 100% ethanol (E5 up to E100)
- Suitable for storage of biodiesel (EN14214)
- Good chemical resistance against a wide range of chemicals and solvents
- Good visibility due to light color
- · Semi gloss and smooth appearance
- · Easy to clean
- Can be applied by heavy-duty, single-feed, airless spray equipment (60:1)
- · Reduced explosion risk and fire hazard
- · Meets the requirements of El 1541 2.2 (coating systems for aviation fuel storage tanks and pipes)

COLOR AND GLOSS LEVEL

- · Green, cream, clear
- Semi-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. 94.0 g/kg max. 131.0 g/l (approx. 1.1 lb/US gal) EPA Method 24: 92.0 g/ltr (0.8 lb/USgal)
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)
Dry to touch	8 hours
Overcoating Interval	Minimum: 24 hours Maximum: 2 months
Full cure after	6 days
Shelf life	Base: at least 12 months when stored cool and dry Hardener: at least 12 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 SSPC-SP10 or ISO-SA2½, blasting profile 50 125 μm (5.0 mils) (2.0 5.0 mils)
- Steel with suitable primer (NOVAGUARD 260 or PHENGUARD 930) must be dry and free from any contamination

Substrate temperature

- Substrate temperature during application and curing should be above 10°C (50°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 at least 20°C (68°F)
- · No thinner should be added
- · For recommended application instructions, see working procedure
- · At lower temperature, the viscosity will be too high for spray application

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.)

Note: Use heavy-duty, single-feed, airless spray equipment, preferably 60:1 pump ratio and suitable high-pressure hoses

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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

Notes:

- 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 (134 ft²/US gal)		
600 µm (24.0 mils)	1.7 m²/l (67 ft²/US gal)		

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

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
- Recommendation is to apply a WFT, which is equal to the specified DFT plus 60 µm (2.4 mils)

Measuring 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 300 μm (12.0 mils)					
Overcoating with	Interval	10°C (5	50°F)	20°C (68°F)	30°C (86°F)
itself	Minimum	36 hou	rs	24 hours	16 hours
	Maximum	3 mont	hs	2 months	1 month

Note: Surface should be dry and free from any contamination

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Curing time for DFT up to 300 µm (12.0 mils)				
Substrate temperature	Dry to handle	Minimum cure time for purely aliphatic petroleum product (see note)	Minimum cure time for all other chemicals	
10°C (50°F)	40 hours	7 days	10 days	
20°C (68°F)	18 hours	3 days	6 days	
30°C (86°F)	12 hours	48 hours	4 days	
40°C (104°F)	8 hours	24 hours	3 days	

Notes:

- Gasoline or gasoline/alcohol blends are not included in purely aliphatic petroleum products, please contact your PPG representative for further details
- 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		
10°C (50°F)	2 hours		
20°C (68°F)	1 hour		
30°C (86°F)	45 minutes		

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

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
- If workers are exposed to concentrations above the exposure limit, they must use appropriate personal protective equipment (PPE).

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

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