DESCRIPTION

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

PRINCIPAL CHARACTERISTICS

- One-coat tank coating system
- Cures down to −5°C (23°F) with intermittent temperature drops to −10°C (14°F)
- Fast return to service
- 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
- Can be applied by heavy-duty, single-feed, airless spray equipment (60:1)
- · Reduced explosion risk and fire hazard

COLOR AND GLOSS LEVEL

- Cream, gray
- 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 2010/75/EU, 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	
Dry to handle	12 hours	
Overcoating Interval	Minimum: 24 hours Maximum: 1 month	
Full cure after	6 days	

Ref. P638 Page 1/5



Data for mixed product	
	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

RECOMMENDED SUBSTRATE CONDITIONS AND TEMPERATURES

Substrate conditions

- Steel; blast cleaned to a minimum of SSPC-SP10 or ISO-SA2½, blasting profile $50 125 \mu m$ (2.0 5.0 mils)
- Steel with suitable primer (NOVAGUARD 260) must be dry and free from any contamination

Substrate temperature

- Substrate temperature during application and curing down to -5°C (23°F) is acceptable
- Ambient temperature during curing should be above -10°C (14°F)
- Substrate temperature during application and curing should be at least 3°C (5°F) above dew point

Note: The surface should be inspected to ensure there is no ice present on the substrate in cold weather conditions

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, contact local PPG representative

Induction time

None

Pot life

35 minutes at 20°C (68°F)

Note: See ADDITIONAL DATA - Pot life

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Ref. P638 Page 2/5

Airless spray

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

Brush/roller

· Brush: for stripe coating and spot repair only

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)	

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)

Overcoating interval for DFT up to 600 μm (24.0 mils)						
Overcoating with	Interval	-5°C (23°F)	0°C (32°F)	5°C (41°F)	10°C (50°F)	20°C (68°F)
itself	Minimum	5 days	3.5 days	52 hours	36 hours	14 hours
	Maximum	1 month	1 month	1 month	1 month	1 month

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

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Ref. P638 Page 3/5

Curing time for DFT up to 600 µm (24.0 mils)		
Substrate temperature	Service- water immersion	
-5°C (23°F)	8 days	
0°C (32°F)	5 days	
5°C (41°F)	3 days	
10°C (50°F)	48 hours	
20°C (68°F)	18 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	Resistant to vehicular service	
-5°C (23°F)	6 days	N/A	
0°C (32°F)	4 days	N/A	
5°C (41°F)	52 hours	N/A	
10°C (50°F)	36 hours	N/A	
20°C (68°F)	14 hours	N/A	

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 testing at 3-5V/µm (75-125V/mil)

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 (23°F)	5 days	9 days	14 days
0°C (32°F)	3 days	4.5 days	14 days
5°C (41°F)	44 hours	60 hours	11 days
10°C (50°F)	30 hours	45 hours	7 days
20°C (68°F)	12 hours	30 hours	5 days

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

Ref. P638 Page 4/5



Pot life (at application viscosity)		
Mixed product temperature	Pot life	
20°C (68°F)	35 minutes	
30°C (86°F)	15 minutes - 20 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
- · 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.

REFERENCES

EXPLANATION TO PRODUCT DATA SHEETS

INFORMATION SHEET

1411

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Ref. P638 Page 5/5