### **DESCRIPTION**

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

## PRINCIPAL CHARACTERISTICS

- · One coat conductive tank coating system
- Excellent resistance to crude oil up to 120°C (250°F)
- · Approved by German building authorities according to DIBt building code for storage of flammable fuels
- Suitable for storage of unleaded gasolines blended up to 100% ethanol (E5 up to E100)
- Prevents build-up of static electricity in liquids during loading operations
- Suitable for storage of biodiesel (EN14214)
- Good chemical resistance against a wide range of chemicals and solvents
- · Extensive chemical resistance list available at www.tankselect.sigmacoatings.com
- · Glossy and smooth appearance
- · Reduced explosion risk and fire hazard
- Good conductivity property (longitudinal conductivity < 1x10^8 Ohm and conductivity to the steel < 1x10^6 Ohm)

## **COLOR AND GLOSS LEVEL**

- Black
- Gloss

## BASIC DATA AT 20°C (68°F)

Data for mixed product		
Number of components	Two	
Mass density	1.3 kg/l (10.8 lb/US gal)	
Volume solids	100%	
VOC (Supplied)	Directive 2010/75/EU, SED: max. 102.0 g/kg max. 135.0 g/l (approx. 1.1 lb/US gal)	
Recommended dry film thickness	300 - 800 μm (12.0 - 32.0 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 ISO-Sa2½, blasting profile 50 – 100 μm (2.0 – 4.0 mils)

## Substrate temperature and application conditions

- Substrate temperature during application and curing should be above 5°C (41°F)
- Substrate temperature during application should be at least 3°C (5°F) above dew point

### **INSTRUCTIONS FOR USE**

## Mixing ratio by volume: base to hardener 66.7:33.3 (2:1)

- The temperature of the mixed base and hardener should preferably be, depending on application method between 30°C (86°F) and 40°C (104°F)
- · No thinner should be added

## **Induction time**

None

## Pot life

20 minutes at 40°C (104°F)

Note: See ADDITIONAL DATA - Pot life

## **Airless spray**

- Single feed airless spray with a maximum paint hose of 30 meters (98 ft) with in-line heater at 30°C (86°F)
- Twin feed airless spray with both components at 40°C (104°F) with paint hose up to 100 meters (328 ft)

## **Recommended thinner**

No thinner should be added

## **Nozzle orifice**

Approx. 0.53 mm (0.021 in)

## Nozzle pressure

At 40°C (104°F) paint temperature min. 20.0 MPa (approx. 200 bar; 2901 p.s.i.)

## **Brush/roller**

· For stripe coating and spot repair only

## **Recommended thinner**

No thinner should be added

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## **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)	
800 μm (32.0 mils)	1.3 m²/l (50 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)

Overcoating interval for DFT up to 600 μm (24.0 mils)				
Overcoating with	Interval	10°C (5	0°F) 20°C (68°	°F) 30°C (86°F)
itself	Minimum	48 hour	s 24 hours	16 hours
	Maximum	3 month	ns 2 months	1 month

Note: Surface should be dry and free from any contamination

Curing time for DFT up to 600 µm (24.0 mils)		
Substrate temperature	Service- water immersion	
10°C (50°F)	3 days	
20°C (68°F)	36 hours	
30°C (86°F)	24 hours	

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Curing time for DFT up to 600 µm (24.0 mils)			
Substrate temperature	Dry to handle	Full cure	
10°C (50°F)	48 hours	10 days	
20°C (68°F)	24 hours	7 days	
30°C (86°F)	16 hours	4 days	

Note: Adequate ventilation must be maintained during application and curing (please refer to INFORMATION SHEETS 1433 and 1434)

Curing time for DFT up to 600 µm (24.0 mils)			
Substrate temperature	Dry to walk on	Resistant to vehicular service	
10°C (50°F)	58 hours	N/A	
20°C (68°F)	30 hours	N/A	
30°C (86°F)	20 hours	N/A	

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
10°C (50°F)	48 hours	7.5 days	10 days
20°C (68°F)	24 hours	4 days	7 days
30°C (86°F)	16 hours	60 hours	4 days

Pot life (at application viscosity)		
Mixed product temperature	Pot life	
30°C (86°F)	45 minutes	
40°C (104°F)	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).

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### **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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