#### **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
- · Easy to clean
- Can be applied by heavy-duty, single-feed, airless spray equipment (60:1)
- · Reduced explosion risk and fire hazard
- Excellent pit filling capabilities
- . Meets the requirements of El 1541 2.2 (coating systems for aviation fuel storage tanks and pipes)

#### **COLOR AND GLOSS LEVEL**

- · Cream and green
- 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	
Overcoating Interval	Minimum: 22 hours Maximum: 2 months	
Full cure after	6 days	
Shelf life	Base: at least 24 months when stored cool and dry Hardener: at least 24 months when stored cool and dry	

Notes:



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- 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 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 4:1

- The temperature of the mixed base and hardener should preferably be at least 20°C (68°F)
- · No thinner should be added

## **Induction time**

0 minute

Note:

- No induction time required

### Pot life

1 hour at 20°C (68°F)

#### Note:

- See ADDITIONAL DATA - Pot life

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#### 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

#### **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
- · 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**

## **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)

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)	

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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)	40°C (104°F)
itself	Minimum	3.5 days	48 hours	22 hours	15 hours	10 hours
	Maximum	3 months	3 months	2 months	1 month	14 days

#### Note:

- Surface must be dry and free from any contamination

Curing time for DFT up to 600 µm (24.0 mils)		
Substrate temperature	Service- water immersion	
5°C (41°F)	5 days	
10°C (50°F)	60 hours	
20°C (68°F)	27 hours	
30°C (86°F)	18 hours	
40°C (104°F)	12 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 handle	Minimum cure time for purely aliphatic petroleum product (see note)	Minimum cure time for all other chemicals
5°C (41°F)	3 days	12 days	15 days
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

#### 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

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Curing time for DFT up to 600 µm (24.0 mils)		
Substrate temperature	Dry to walk on	
5°C (41°F)	3.5 days	
10°C (50°F)	48 hours	
20°C (68°F)	22 hours	
30°C (86°F)	15 hours	
40°C (104°F)	10 hours	

#### 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/spark testing.

Pot life (at application viscosity)		
Mixed product temperature	Pot life	
10°C (50°F)	2 hours	
20°C (68°F)	1 hour	
30°C (104°F)	45 minutes	

## Note:

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

## **SAFETY PRECAUTIONS**

- If workers are exposed to concentrations above the exposure limit, they must use appropriate personal protective equipment (PPE).
- · Ventilation should be provided in confined spaces to maintain good visibility
- 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

#### **WORLDWIDE AVAILABILITY**

It is always the aim of PPG Protective & 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

- Guide | NOVAGUARD 890 | Chemical resistance guide
- Guide | Tank maintenance | Our guide to the economical repair of corroded tank bottoms
- Information sheet | Explanation of product data sheets

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#### **WARRANTY**

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