## **DESCRIPTION**

Two-component, solvent-free amine cured epoxy coating

## PRINCIPAL CHARACTERISTICS

- Tank coating for crude oil and aliphatic petroleum products
- · Rapid cure and return-to-service
- Good resistance to various chemicals
- Can be applied by heavy-duty, single-feed, airless spray equipment (60:1)
- Excellent anticorrosive properties and water resistance
- · Good abrasion resistance
- · A clear (semi-transparent) version is available for systems reinforced with chopped glass fibers or glass fiber mats
- Meets the requirements of El 1541 2.2 (coating systems for aviation fuel storage tanks and pipes)

## **COLOR AND GLOSS LEVEL**

- Gray, offwhite, clear (semi-transparent)
- 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)	UK PG 6/23(92) Appendix 3: max. 20.0 g/l (approx. 0.2 lb/US gal)
Recommended dry film thickness	300 - 600 μm (12.0 - 24.0 mils) depending on system
Theoretical spreading rate	$3.3~m^2$ /l for $300~\mu m$ ( $134~ft^2$ /US gal for $12.0~mils$ ) $1.7~m^2$ /l for $600~\mu m$ ( $67~ft^2$ /US gal for $24.0~mils$ )
Dry to touch	8 hours
Overcoating Interval	Minimum: 12 hours Maximum: 6 months
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 Overcoating intervals
- See ADDITIONAL DATA Curing time

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#### RECOMMENDED SUBSTRATE CONDITIONS AND TEMPERATURES

#### **Substrate conditions**

• Steel; blast cleaned to ISO-Sa2½, blasting profile  $50 - 100 \, \mu m$  ( $2.0 - 4.0 \, mils$ )

## Substrate temperature and application conditions

- Substrate temperature during application and curing should be above 5°C (41°F)
- Substrate temperature during application 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 above 20°C (68°F)
- · No thinner should be added

#### Pot life

45 minutes at 20°C (68°F)

#### Note:

- See ADDITIONAL DATA - Pot life

## Airless spray

• 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

## **Recommended thinner**

No thinner should be added

## Nozzle orifice

Approx. 0.43 - 0.53 mm (0.017 - 0.021 in)

## **Nozzle pressure**

21.0 MPa (approx. 210 bar; 3046 p.s.i.)

## Brush/roller

Brush: 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
- 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 m <sup>2</sup> /l (131 ft <sup>2</sup> /US gal)	
600 μm (24.0 mils)	1.7 m²/l (67 ft²/US gal)	

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	36 hours	20 hours	12 hours	5 hours	2 hours
	Maximum	6 months	6 months	6 months	4 months	2 months

#### 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)	3 days	
10°C (50°F)	45 hours	
20°C (68°F)	18 hours	
30°C (86°F)	6 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

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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)	58 hours	
10°C (50°F)	36 hours	
20°C (68°F)	14 hours	
30°C (86°F)	5 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.

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)	36 hours	4 days	15 days
10°C (50°F)	24 hours	60 hours	10 days
20°C (68°F)	12 hours	30 hours	5 days
30°C (86°F)	4 hours	10 hours	60 hours

## 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

Pot life (at application viscosity)		
Mixed product temperature	Pot life	
20°C (68°F)	45 minutes	
30°C (86°F)	20 minutes	

## Note:

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

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#### **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
- See Safety Data Sheet and product label for complete safety and precaution requirements

#### **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 650 | Chemical resistance guide
- Guide | Tank maintenance | Our guide to the economical repair of corroded tank bottoms
- · Information sheet | Explanation of product data sheets

#### **WARRANTY**

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