DESCRIPTION

Two-component, reinforced high solids tank coating, based upon polyamine adduct cured pure epoxy technology

PRINCIPAL CHARACTERISTICS

- Tank coating with good chemical resistance against a wide range of chemicals
- Meets the requirements of El 1541 2.2 (coating systems for aviation fuel storage tanks and pipes)
- Short curing periods
- Good low-temperature curing
- Easy to clean

COLOR AND GLOSS LEVEL

- · Green, 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	78 ± 2%
VOC (Supplied)	Directive 2010/75/EU, SED: max. 163.0 g/kg max. 233.0 g/l (approx. 1.9 lb/US gal)
Recommended dry film thickness	125 - 160 µm (5.0 - 6.3 mils) depending on system
Theoretical spreading rate	6.2 m²/l for 125 μm (250 ft²/US gal for 5.0 mils)
Dry to touch	3 hours
Overcoating Interval	Minimum: 8 hours Maximum: 28 days
Shelf life	Base: at least 12 months when stored cool and dry Hardener: at least 24 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 40 70 μm (1.6 2.8 mils)
- Previous coat must be dry and free from any contamination
- Surface of previous coat should be sufficiently roughened if necessary

IMO-MSC.288(87) requirements for cargo tanks of crude oil tankers

- Steel; ISO 8501-3:2006 grade P2, with all edges treated to a rounded radius of minimum 2 mm (0.079 in) or subject to three pass grinding or at least equivalent process before painting
- Steel; blast cleaned to ISO-Sa2½, blasting profile 30 75 μm (1.2 3.0 mils)
- Dust quantity on the surface to be coated must not exceed rating "1" for dust size class "3", "4" or "5" (ISO 8502-3-2017). Lower dust size classes ("1" and/or "2") to be removed if visible without magnification.

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

SYSTEM SPECIFICATION

System for chemical resistance according to the latest issue of the chemical resistance list

- SIGMAGUARD 720: 125 μm (5.0 mils)
- SIGMAGUARD 720: 125 μm (5.0 mils)

System for cargo tanks of Crude Oil Tankers according to IMO resolution MSC.288(87)

- SIGMAGUARD 720: 160 μm (6.3 mils)
- SIGMAGUARD 720: 160 μm (6.3 mils)

INSTRUCTIONS FOR USE

Mixing ratio by volume: base to hardener 3:1

- The temperature of the mixed base and hardener should preferably be above 15°C (59°F), otherwise extra thinner may be required to obtain application viscosity
- · Adding too much thinner results in reduced sag resistance and slower cure
- Thinner should be added after mixing the components

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Table of Induction time

Mixed product induction time		
Mixed product temperature	Induction time	
15°C (59°F)	15 minutes	
20°C (68°F)	10 minutes	
25°C (77°F)	5 minutes	

Pot life

1.5 hours at 20°C (68°F)

Air spray

Recommended thinner

THINNER 91-92

Volume of thinner

5 - 15% for a one coat application of $125~\mu m$ (5.0 mils) DFT

Nozzle orifice

1.8 - 2.0 mm (approx. 0.070 - 0.079 in)

Nozzle pressure

0.3 - 0.4 MPa (approx. 3 - 4 bar; 44 - 58 p.s.i.)

Airless spray

Recommended thinner

THINNER 91-92

Volume of thinner

0 - 10% for a one coat application of 125 µm (5.0 mils) DFT

Nozzle orifice

Approx. 0.53 - 0.69 mm (0.021 - 0.027 in)

Nozzle pressure

15.0 MPa (approx. 150 bar; 2176 p.s.i.)

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Brush/roller

• For stripe coating and spot repair only

Cleaning solvent

• THINNER 90-53

ADDITIONAL DATA

Spreading rate and film thickness		
DFT	Theoretical spreading rate	
100 μm (4.0 mils)	7.8 m²/l (313 ft²/US gal)	
125 µm (5.0 mils)	6.2 m²/l (250 ft²/US gal)	
160 µm (6.3 mils)	4.9 m ² /l (199 ft ² /US gal)	

Note:

- Maximum DFT when brushing: 100 µm (4.0 mils)

Overcoating interval for DFT up to 160 µm (6.3 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	32 hours	24 hours	8 hours	4 hours	3 hours
	Maximum	28 days	28 days	28 days	14 days	7 days

Note:

- Surface should be dry and free from any contamination

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Curing time for full system - DFT up to 320 µm (12.6 mils)			
Substrate temperature	Minimum curing time before transport of aliphatic petroleum products and ballast water and tanktest with seawater	Minimum curing time before transport of cargoes without note 4, 7 or 11	
5°C (41°F)	10 days	17 days	
10°C (50°F)	7 days	14 days	
15°C (59°F)	5 days	8 days	
20°C (68°F)	3 days	5 days	
30°C (86°F)	60 hours	4 days	
40°C (104°F)	36 hours	3 days	

Notes:

- For detailed information on resistance and resistance notes, please refer to the latest issue of the Tank coating Resistance List (TRIS)
- Adequate ventilation must be maintained during application and curing

Curing time for DFT up to 160 µm (6.3 mils)		
Substrate temperature	Dry to touch	
5°C (41°F)	7-8 hours	
10°C (50°F)	5-6 hours	
20°C (68°F)	2-3 hours	

Pot life (at application viscosity)		
Mixed product temperature	Pot life	
15°C (59°F)	3 hours	
20°C (68°F)	1.5 hours	
25°C (77°F)	1 hour	
30°C (86°F)	30 minutes	

SAFETY PRECAUTIONS

- See Safety Data Sheet and product label for complete safety and precaution requirements
- This is a solvent-borne paint and care should be taken to avoid inhalation of spray mist or vapor, as well as contact between the wet paint and exposed skin or eyes

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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

· Information sheet | Explanation of product data sheets

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