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

- · Light 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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