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This information is not exhaustive and it is the user's responsibility to ensure that this data sheet is the most current by contacting their local New Guard Coatings Group branch prior to using the coating/product.

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DESCRIPTION

Two-component, high solids polyamine cured phenolic epoxy coating

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

- Offwhite, cream
- 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. 169.0 g/kg max. 242.0 g/l (approx. 2.0 lb/US gal) |
| Recommended dry film thickness | 150 μm (6.0 mils) |
| Theoretical spreading rate | 5.2 m²/l for 150 μm (209 ft²/US gal for 6.0 mils) |
| Dry to touch | 3 hours |
| Overcoating Interval | Minimum: 8 hours Maximum: 28 days |
| Full cure after | See curing table |
| 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

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 of approved coating must be dry and free from any contamination



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 75:25 (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

Induction time

Allow induction time before use

| 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)

Note: See ADDITIONAL DATA - Pot life

Air spray

Recommended thinner

THINNER 91-92

Volume of thinner

5 - 15% for a one coat application of 150 μm (6.0 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 150 µm (6.0 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.)

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 | |
| 125 µm (5.0 mils) | 6.2 m²/l (250 ft²/US gal) | |
| 150 µm (6.0 mils) | 5.2 m²/l (209 ft²/US gal) | |

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

| Overcoating interval for DFT up to 150 μm (6.0 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 | 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



| Curing time for DFT up to 150 µm (6.0 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, 8 or 11 | | |
| 5°C (41°F) | 10 days | 17 days | | |
| 10°C (50°F) | 7 days | 14 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:

- Minimum curing time before transport of cargoes with note 4,7,8 or 11: 3 months
- For detailed information on resistance and resistance notes, please refer to the latest issue of the cargo resistance list
- Adequate ventilation must be maintained during application and curing (please refer to INFORMATION SHEETS 1433 and 1434)

| 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

- For paint and recommended thinners see INFORMATION SHEETS 1430, 1431 and relevant Material Safety Data Sheets
- 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

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

| CONVERSION TABLES | INFORMATION SHEET | 1410 |
|---|---|---|
| EXPLANATION TO PRODUCT DATA SHEETS | INFORMATION SHEET | 1411 |
| SAFETY INDICATIONS | INFORMATION SHEET | 1430 |
| SAFETY IN CONFINED SPACES AND HEALTH SAFETY, EXPLOSION HAZARD - | INFORMATION SHEET | 1431 |
| TOXIC HAZARD | | |
| SAFE WORKING IN CONFINED SPACES | INFORMATION SHEET | 1433 |
| DIRECTIVES FOR VENTILATION PRACTICE | INFORMATION SHEET | 1434 |
| CLEANING OF STEEL AND REMOVAL OF RUST | INFORMATION SHEET | 1490 |
| SPECIFICATION FOR MINERAL ABRASIVES | INFORMATION SHEET | 1491 |
| RELATIVE HUMIDITY – SUBSTRATE TEMPERATURE – AIR TEMPERATURE | INFORMATION SHEET | 1650 |
| | EXPLANATION TO PRODUCT DATA SHEETS SAFETY INDICATIONS SAFETY IN CONFINED SPACES AND HEALTH SAFETY, EXPLOSION HAZARD – TOXIC HAZARD SAFE WORKING IN CONFINED SPACES DIRECTIVES FOR VENTILATION PRACTICE CLEANING OF STEEL AND REMOVAL OF RUST SPECIFICATION FOR MINERAL ABRASIVES | EXPLANATION TO PRODUCT DATA SHEETSINFORMATION SHEETSAFETY INDICATIONSINFORMATION SHEETSAFETY IN CONFINED SPACES AND HEALTH SAFETY, EXPLOSION HAZARD -INFORMATION SHEETTOXIC HAZARDINFORMATION SHEETSAFE WORKING IN CONFINED SPACESINFORMATION SHEETDIRECTIVES FOR VENTILATION PRACTICEINFORMATION SHEETCLEANING OF STEEL AND REMOVAL OF RUSTINFORMATION SHEETSPECIFICATION FOR MINERAL ABRASIVESINFORMATION SHEET |

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