DESCRIPTION

Two-component, aluminum pigmented polyamide cured universal primer

PRINCIPAL CHARACTERISTICS

- General-purpose epoxy primer in protective coating systems for steel and non-ferrous metals
- Excellent adhesion to steel, shop primer, galvanized steel and non-ferrous metals
- Suitable as sealer or tie-coat at DFT 25 40 μm (1.0 1.6 mils)
- · Suitable for immersion service
- Cures at temperatures down to 5°C (41°F)
- Suitable for touching up of weld seams and damages of epoxy coatings during construction
- Suitable on wet blast cleaned substrates (damp or dry)
- Compatible with well-designed cathodic protection systems
- ACQPA 24142-certified

COLOR AND GLOSS LEVEL

- Gray, yellow/green and redbrown
- Low sheen

Note:

- The addition of a UV stable topcoat should be considered when using epoxy coatings in cosmetic areas

BASIC DATA AT 20°C (68°F)

| Data for mixed product | |
|--------------------------------|--|
| Number of components | Two |
| Mass density | 1.3 kg/l (11.0 lb/US gal) |
| Volume solids | 57 ± 2% |
| VOC (Supplied) | Directive 2010/75/EU, SED: max. 327.0 g/kg UK PG 6/23(92) Appendix 3: max. 432.0 g/l (approx. 3.6 lb/US gal) China GB 30981-2020 (tested) 336.0 g/l (approx. 2.8 lb/gal) |
| Recommended dry film thickness | 50 - 100 μm (2.0 - 4.0 mils) depending on system |
| Theoretical spreading rate | 11.4 m²/l for 50 μm (457 ft²/US gal for 2.0 mils) 5.7 m²/l for 100 μm (229 ft²/US gal for 4.0 mils) |
| Dry to touch | 2 hours |
| Overcoating Interval | Minimum: 2 hours |
| Full cure after | 7 days |
| Shelf life | Base: at least 24 months when stored cool and dry Hardener: at least 24 months when stored cool and dry |

Notes:



Ref. 7417 Page 1/6

- See ADDITIONAL DATA Spreading rate and film thickness
- See ADDITIONAL DATA Overcoating intervals
- See ADDITIONAL DATA Curing time

RECOMMENDED SUBSTRATE CONDITIONS AND TEMPERATURES

· Apply this product to the specified thickness as soon as possible after the surface is prepared

Atmospheric exposure conditions

- Steel blast cleaned to ISO-Sa2½, blasting profile 30 75 μm (1.2 3.0 mils) or according to ISO-St3
- Shop primed steel; pretreated to SPSS-Pt3

Galvanized steel

- The surface must be properly prepared, dry, clean and free of any contamination
- The surface should be sufficiently roughened by sweep blasting to achieve a uniform matt appearance
- Sweep blast in accordance with the SSPC-SP16 guidelines

Stainless steel

- The surface must be properly prepared, dry, clean and free of any contamination
- The surface should be sufficiently roughened by sweep blasting with inert non-metallic abrasives
- Sweep blast in accordance with the SSPC-SP16 guidelines

Thermal Sprayed Metallization (TSM)

- · Surface must be dry and free from any contamination
- The mist coat / full coat technique is required. See mist coat thinning recommendation in the Instructions For Use part below

Concrete / Masonry

- · Dried for at least 28 days in good ventilation conditions
- Moisture content should not exceed 4.5%
- Concrete must be sound, dry, free from laitance and any contamination
- Surface should be sufficiently roughened

Ref. 7417 Page 2/6



<u>Immersion exposure</u>

- Steel or steel with not approved zinc silicate shop primer; blast cleaned (dry or wet) to ISO-Sa2½, blasting profile 30
 -75 μm (1.2 3.0 mils)
- Steel with approved zinc silicate shop primer; weld seams and areas of damaged shop primer or breakdown should be blast cleaned to ISO-Sa2½, blasting profile 30 75 µm (1.2 3.0 mils) or power tool cleaned to SPSS-Pt3
- Existing pipelines may have to be cleaned first by scraper pigs and solvents

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
- Relative humidity during application and curing should not exceed 85%

INSTRUCTIONS FOR USE

Mixing ratio by volume: base to hardener 4:1

- 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

Pot life

8 hours at 20°C (68°F)

Note:

- See ADDITIONAL DATA - Pot life

Air spray

Recommended thinner

THINNER 91-92

Volume of thinner

0 - 10%, depending on required thickness and application conditions

Nozzle orifice

1.5 - 2.0 mm (approx. 0.060 - 0.079 in)

Nozzle pressure

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

Ref. 7417 Page 3/6



Airless spray

Recommended thinner

THINNER 91-92

Volume of thinner

0 - 10%, depending on required thickness and application conditions

Nozzle orifice

Approx. 0.46 mm (0.018 in)

Nozzle pressure

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

Note:

- Volume of thinner up to 30% for sealer or tie-coat application at DFT range 25 - 40 μm (1.0 - 1.6 mils)

Brush/roller

Recommended thinner

No extra thinner is necessary

Volume of thinner

Up to 5% THINNER 91-92 can be added if desired

Cleaning solvent

THINNER 90-53

ADDITIONAL DATA

| Spreading rate and film thickness | | | | |
|-----------------------------------|---|--|--|--|
| DFT | Theoretical spreading rate | | | |
| 50 μm (2.0 mils) | 11.4 m²/l (457 ft²/US gal) | | | |
| 75 µm (3.0 mils) | 7.6 m²/l (305 ft²/US gal) | | | |
| 100 μm (4.0 mils) | 5.7 m ² /l (229 ft ² /US gal) | | | |

Note:

- Maximum DFT when brushing: 50 µm (2.0 mils)

Ref. 7417 Page 4/6



| Overcoating interval for DFT up to 100 μm (4.0 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 and various two-pack epoxy coatings | Minimum | 12 hours | 6 hours | 2 hours | 1 hour | 30 minutes |
| | Maximum exposed to direct sunshine | 3 months | 3 months | 3 months | 2 months | 2 months |
| | Maximum NOT exposed to direct sunshine | 6 months | 6 months | 6 months | 4 months | 3 months |
| polyurethane topcoat | Minimum | 36 hours | 16 hours | 6 hours | 4 hours | 3 hours |
| | Maximum exposed to direct sunshine | 3 months | 3 months | 3 months | 2 months | 2 months |
| | Maximum NOT exposed to direct sunshine | 6 months | 6 months | 6 months | 4 months | 3 months |

Notes:

- Surface should be dry and free from any contamination
- Glossy finishes require a corresponding undercoat

| Curing time for DFT up to 100 μm (4.0 mils) | | | | |
|---|--------------|---------------|-----------|--|
| Substrate temperature | Dry to touch | Dry to handle | Full cure | |
| 5°C (41°F) | 8 hours | 13 hours | 21 days | |
| 10°C (50°F) | 4 hours | 6 hours | 14 days | |
| 20°C (68°F) | 2 hours | 2.5 hours | 7 days | |
| 30°C (86°F) | 1 hour | 1.5 hours | 5 days | |
| 40°C (104°F) | 45 minutes | 1 hour | 4 days | |

Note:

- Adequate ventilation must be maintained during application and curing

Ref. 7417 Page 5/6



| Pot life (at application viscosity) | | | |
|-------------------------------------|----------|--|--|
| Mixed product temperature | Pot life | | |
| 15°C (59°F) | 10 hours | | |
| 20°C (68°F) | 8 hours | | |
| 30°C (86°F) | 5 hours | | |
| 35°C (95°F) | 4 hours | | |

SAFETY PRECAUTIONS

- 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
- 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

Information sheet | Explanation of product data sheets

WARRANTY

PPG warrants (i) its title to the product, (ii) that the quality of the product conforms to PPG's specifications for such product in effect at the time of manufacture and (iii) that the product shall be delivered free of the rightful claim of any third person for infringement of any U.S. patent covering the product. THESE ARE THE ONLY WARRANTIES THAT PPG MAKES AND ALL OTHER EXPRESS OR IMPLIED WARRANTIES, UNDER STATUTE OR ARISING OTHERWISE IN LAW, FROM A COURSE OF DEALING OR USAGE OF TRADE, INCLUDING WITHOUT LIMITATION, ANY OTHER WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE OR USE, ARE DISCLAIMED BY PPG. Any claim under this warranty must be made by Buyer to PPG in writing within five (5) days of Buyer's discovery of the claimed defect, but in no event later than the expiration of the applicable shelf life of the product, or one year from the date of the delivery of the product to the Buyer, whichever is earlier. Buyer's failure to notify PPG of such non-conformance as required herein shall bar Buyer from recovery under this warranty.

LIMITATIONS OF LIABILITY

IN NO EVENT WILL PPG BE LIABLE UNDER ANY THEORY OF RECOVERY (WHETHER BASED ON NEGLIGENCE OF ANY KIND, STRICT LIABILITY OR TORT) FOR ANY INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES IN ANY WAY RELATED TO, ARISING FROM, OR RESULTING FROM ANY USE MADE OF THE PRODUCT. The information in this sheet is intended for guidance only and is based upon laboratory tests that PPG believes to be reliable. PPG may modify the information contained herein at any time as a result of practical experience and continuous product development. All recommendations or suggestions relating to the use of the PPG product, whether in technical documentation, or in response to a specific inquiry, or otherwise, are based on data, which to the best of PPG's knowledge, is reliable. The product and related information is designed for users having the requisite knowledge and industrial skills in the industry and it is the end-user's responsibility to determine the suitability of the product for its own particular use and it shall be deemed that Buyer has done so, as its sole discretion and risk. PPG has no control over either the quality or condition of the substrate, or the many factors affecting the use and application of the product. Therefore, PPG does not accept any liability arising from any loss, injury or damage resulting from such use or the contents of this information (unless there are written agreements stating otherwise). Variations in the application environment, changes in procedures of use, or extrapolation of data may cause unsatisfactory results. This sheet supersedes all previous versions and it is the Buyer's responsibility to ensure that this information is current prior to using the product. Current sheets for all PPG Protective & Marine Coatings Products are maintained at www.ppgpmc.com. The English text of this sheet shall prevail over any translation thereof.

The PPG logo, and all other PPG marks are property of the PPG group of companies. All other third-party marks are property of their respective owners.



Ref. 7417 Page 6/6