DESCRIPTION

Two-component, zinc epoxy primer

PRINCIPAL CHARACTERISTICS

- Excellent anticorrosive properties
- · Quick-drying, can be overcoated after 25 minutes
- Excellent application properties
- Cures at temperatures down to -5°C (23°F)

COLOR AND GLOSS LEVEL

- Gray
- Flat

BASIC DATA AT 20°C (68°F)

| Data for mixed product | | | | |
|--------------------------------|--|--|--|--|
| Number of components | Two | | | |
| Mass density | 2.0 kg/l (16.7 lb/US gal) | | | |
| Volume solids | 65 ± 2% | | | |
| VOC (Supplied) | Directive 2010/75/EU, SED: max. 208.0 g/kg max. 408.0 g/l (approx. 3.4 lb/US gal) | | | |
| Recommended dry film thickness | 50 - 80 μm (2.0 - 3.1 mils) depending on system | | | |
| Theoretical spreading rate | 13.0 m²/l for 50 µm (521 ft²/US gal for 2.0 mils) | | | |
| Dry to touch | 10 minutes | | | |
| Overcoating Interval | Minimum: 25 minutes Maximum: 12 months | | | |
| Shelf life | Base: at least 12 months when stored cool and dry Hardener: at least 12 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 ISO-Sa2½, blasting profile 40 – 70 μm (1.6 – 2.8 mils)

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Substrate temperature and application conditions

- Substrate temperature during application and curing down to -5°C (23°F) is acceptable; provided the substrate is free
 from ice and dry
- 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 80:20 (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

4 hours at 20°C (68°F)

Air spray

Recommended thinner

THINNER 21-06

Volume of thinner

15 - 20%, depending on required thickness and application conditions

Nozzle orifice

1.6 mm (approx. 0.063 in)

Nozzle pressure

0.3 - 0.6 MPa (approx. 3 - 6 bar; 44 - 87 p.s.i.)

Airless spray

Recommended thinner

THINNER 21-06

Volume of thinner

5 - 15%, depending on required thickness and application conditions

Nozzle orifice

Approx. 0.38 - 0.53 mm (0.015 - 0.021 in)

Nozzle pressure

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

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Brush/roller

Recommended thinner

THINNER 21-06

Volume of thinner

0 - 5%

Cleaning solvent

THINNER 90-53

ADDITIONAL DATA

| Spreading rate and film thickness | | | | |
|-----------------------------------|----------------------------|--|--|--|
| DFT Theoretical spreading | | | | |
| 50 μm (2.0 mils) | 13.0 m²/l (521 ft²/US gal) | | | |
| 80 μm (3.1 mils) | 8.1 m²/l (336 ft²/US gal) | | | |

| Overcoating interval for DFT up to 50 μm (2.0 mils) | | | | | | |
|--|--------------------|---------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| Overcoating with | Interval | -5°C (23°F) | 0°C (32°F) | 10°C (50°F) | 20°C (68°F) | 30°C (86°F) |
| various two-pack epoxy and polyurethane coatings | Minimum Maximum | 1 hour 12 months | 45 minutes 12 months | 30 minutes 12 months | 25 minutes 12 months | 20 minutes 12 months |

| Overcoating interval for DFT up to 80 μm (3.1 mils) | | | | | | |
|--|--------------------|------------------------|---------------------|-------------------------|-------------------------|-------------------------|
| Overcoating with | Interval | -5°C (23°F) | 0°C (32°F) | 10°C (50°F) | 20°C (68°F) | 30°C (86°F) |
| various two-pack epoxy and polyurethane coatings | Minimum Maximum | 1.5 hours 12 months | 1 hour 12 months | 50 minutes 12 months | 40 minutes 12 months | 35 minutes 12 months |

Notes:

- Surface should be dry and free from any contamination
- An interval of several months can be allowed under clean interior exposure conditions
- Zinc primers can form zinc salts on the surface; preferably they should not be weathered for long periods before overcoating
- Before overcoating any visible surface contamination must be removed by sandwashing, sweep blasting or mechanical cleaning

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| Curing time for DFT up to 80 µm (3.1 mils) | | | | |
|--|----------------------|---------------|--|--|
| Substrate temperature | Dry to touch | Dry to handle | | |
| -5°C (23°F) | 1 hour | 1.5 hours | | |
| 0°C (32°F) | 40 minutes | 1 hour | | |
| 10°C (50°F) | 25 minutes | 50 minutes | | |
| 20°C (68°F) | 10 minutes | 40 minutes | | |
| 30°C (86°F) | less than 10 minutes | 35 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 EXPLANATION TO PRODUCT DATA SHEETS SAFETY INDICATIONS | INFORMATION SHEET INFORMATION SHEET INFORMATION SHEET | 1410 1411 1430 |
|---|---|--------------------------------------|
| SAFETY IN CONFINED SPACES AND HEALTH SAFETY, EXPLOSION HAZARD – TOXIC HAZARD | INFORMATION SHEET | 1431 |
| SAFE WORKING IN CONFINED SPACES DIRECTIVES FOR VENTILATION PRACTICE CLEANING OF STEEL AND REMOVAL OF RUST SPECIFICATION FOR MINERAL ABRASIVES RELATIVE HUMIDITY - SUBSTRATE TEMPERATURE - AIR TEMPERATURE | INFORMATION SHEET INFORMATION SHEET INFORMATION SHEET INFORMATION SHEET INFORMATION SHEET | 1433 1434 1490 1491 1650 |

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