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DESCRIPTION

Two-component, high solids semi-gloss recoatable acrylic polyurethane finish

PRINCIPAL CHARACTERISTICS

- · Excellent resistance against corrosion and seawater
- · Excellent color and gloss retention
- · Non-chalking, non-yellowing
- Cures at temperatures down to -5°C (23°F)
- · Tough and abrasion resistant
- · Resistant to splash of mineral and vegetable oils, paraffins, aliphatic petroleum products and mild chemicals
- · Can be recoated even after long atmospheric exposure
- · Lead- and chromate free

COLOR AND GLOSS LEVEL

- · White (other colors available on request)
- · Semi-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 | 75 ± 2% |
| VOC (Supplied) | Directive 1999/13/EC, SED: max. 191.0 g/kg UK PG 6/23(92) Appendix 3: max. 269.0 g/l (approx. 2.2 lb/US gal) |
| Recommended dry film thickness | 75 μm (3.0 mils) |
| Theoretical spreading rate | 10.0 m²/l for 75 μm (401 ft²/US gal for 3.0 mils) |
| Dry to touch | 2 hours |
| Overcoating Interval | Minimum: 12 hours Maximum: Unlimited |
| Full cure after | 7 days |
| Shelf life | Base: at least 36 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

- Previous coat (epoxy or polyurethane) must be dry and free from any contamination
- · Surface of previous coat should be sufficiently roughened if necessary

Substrate temperature and application conditions

- 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 82:18

- 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
- Thinner should be added after mixing the components

Pot life

5 hours at 20°C (68°F)

Note: See ADDITIONAL DATA - Pot life

Air spray

Recommended thinner

THINNER 21-06

Volume of thinner

10 - 15%, depending on required thickness and application conditions

Nozzle orifice

1.0 - 1.5 mm (approx. 0.040 - 0.060 in)

Nozzle pressure

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

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Airless spray

Recommended thinner

THINNER 21-06

Volume of thinner

5 - 10%, depending on required thickness and application conditions

Nozzle orifice

Approx. 0.38 - 0.43 mm (0.015 - 0.017 in)

Nozzle pressure

18.0 MPa (approx. 180 bar; 2611 p.s.i.)

Brush/roller

Recommended thinner

THINNER 21-06

Volume of thinner

5 - 10%

Cleaning solvent

THINNER 90-53

ADDITIONAL DATA

| Spreading rate and film thickness | | |
|-----------------------------------|----------------------------|--|
| DFT | Theoretical spreading rate | |
| 75 μm (3.0 mils) | 10.0 m²/l (401 ft²/US gal) | |
| 100 μm (4.0 mils) | 7.5 m²/l (301 ft²/US gal) | |
| 125 μm (5.0 mils) | 6.0 m²/l (241 ft²/US gal) | |

| Overcoating interval for DFT up to 75 μm (3.0 mils) | | | | | | | |
|---|----------|-------------|------------|-------------|-------------|-------------|--------------|
| Overcoating with | Interval | -5°C (23°F) | 0°C (32°F) | 10°C (50°F) | 20°C (68°F) | 30°C (86°F) | 40°C (104°F) |
| itself | Minimum | 60 hours | 44 hours | 24 hours | 12 hours | 8 hours | 5 hours |
| | Maximum | Unlimited | Unlimited | Unlimited | Unlimited | Unlimited | Unlimited |

 $\label{thm:continuity} \textbf{Note: Maximum interval is only unlimited when the surface is free from any contamination}$



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| Curing time for DFT up to 75 µm (3.0 mils) | | | |
|--|--------------|-----------|--|
| Substrate temperature | Dry to touch | Full cure | |
| -5°C (23°F) | 8 hours | 22 days | |
| 0°C (32°F) | 5 hours | 18 days | |
| 10°C (50°F) | 3 hours | 10 days | |
| 20°C (68°F) | 2 hours | 7 days | |
| 30°C (86°F) | 1 hour | 4 days | |
| 40°C (104°F) | 30 minutes | 3 days | |

Notes:

- Adequate ventilation must be maintained during application and curing (please refer to INFORMATION SHEETS 1433 and 1434)
- Should condensation on the surface occur during, or soon after application, this could result in gloss reduction

| Pot life (at application viscosity) | | |
|-------------------------------------|----------|--|
| Mixed product temperature | Pot life | |
| 10°C (50°F) | 7 hours | |
| 20°C (68°F) | 5 hours | |
| 30°C (86°F) | 3 hours | |
| 40°C (104°F) | 2 hours | |

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
- Contains a toxic polyisocyanate curing agent
- · Avoid at all times inhalation of aerosol spray mist

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.

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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 |
| RELATIVE HUMIDITY – SUBSTRATE TEMPERATURE – AIR TEMPERATURE | INFORMATION SHEET | 1650 |
| | | |

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