



SIGMA
COATINGS




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PINTURAS LAGUN

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Enlace ficha producto



SIGMADUR™ CLEARCOAT

DESCRIPTION

Two-component, aliphatic clear acrylic polyurethane gloss finish

PRINCIPAL CHARACTERISTICS

- Suitable for application over aluminum pigmented polyurethanes
- Excellent gloss retention
- Tough and abrasion resistant
- Resistant to splash of mineral and vegetable oils, white spirit, paraffins, aliphatic petroleum products and mild chemicals
- Reduced sensitivity to early condensation and rain
- Can be recoated even after long atmospheric exposure
- Cures at temperatures down to -5°C (23°F)
- Suitable for use on stainless, non-ferrous materials not subject to immersion

COLOR AND GLOSS LEVEL

- Clear
- Gloss

BASIC DATA AT 20°C (68°F)

| Data for mixed product | |
|--------------------------------|---|
| Number of components | Two |
| Mass density | 1.0 kg/l (8.3 lb/US gal) |
| Volume solids | 50 ± 2% |
| VOC (Supplied) | Directive 1999/13/EC, SED: max. 463.0 g/kg UK PG 6/23(92) Appendix 3: max. 450.0 g/l (approx. 3.8 lb/US gal) |
| Recommended dry film thickness | 35 - 50 µm (1.4 - 2.0 mils) depending on system |
| Theoretical spreading rate | 14.3 m²/l for 35 µm (573 ft²/US gal for 1.4 mils) |
| Dry to touch | 1 hour |
| 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

Atmospheric exposure conditions

- Previous coat (polyurethane) must be dry and free from any contamination
 - Stainless steel, non-ferrous metal should be sufficiently roughened by light sanding followed by degreasing with solvent or cleaner
-

Substrate temperature and application conditions

- Substrate temperature during application at -5°C (23°F) is acceptable; provided the substrate is free from ice and dry
 - Substrate temperature during application and curing down to -5°C (23°F) is acceptable
 - Relative humidity during application and curing should not exceed 85%
-

INSTRUCTIONS FOR USE

Mixing ratio by volume: base to hardener 85:15

- The temperature of the mixed base and hardener should be above 10°C (50°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

None

Pot life

4 hours at 20°C (68°F)

Note: See ADDITIONAL DATA – Pot life

Air spray

Recommended thinner

THINNER 21-06

Volume of thinner

10 - 12%, 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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Brush/roller**Recommended thinner**

THINNER 21-06

Volume of thinner

0 – 5%

Cleaning solvent

THINNER 21-06

ADDITIONAL DATA

| Spreading rate and film thickness | |
|-----------------------------------|--|
| DFT | Theoretical spreading rate |
| 35 µm (1.4 mils) | 14.3 m ² /l (573 ft ² /US gal) |
| 50 µm (2.0 mils) | 10.0 m ² /l (401 ft ² /US gal) |

| Overcoating interval for DFT up to 35 µm (1.4 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 | 48 hours | 30 hours | 16 hours | 9 hours | 6 hours | 4 hours |
| | Maximum | Unlimited | Unlimited | Unlimited | Unlimited | Unlimited | Unlimited |

Note: Surface should be dry and free from any contamination

| Curing time for DFT up to 35 µm (1.4 mils) | | |
|--|---------------|-----------|
| Substrate temperature | Dry to handle | Full cure |
| -5°C (23°F) | 48 hours | 20 days |
| 0°C (32°F) | 24 hours | 16 days |
| 10°C (50°F) | 12 hours | 10 days |
| 20°C (68°F) | 6 hours | 7 days |
| 30°C (86°F) | 5 hours | 5 days |
| 40°C (104°F) | 3 hours | 3 days |

Note: Adequate ventilation must be maintained during application and curing (please refer to INFORMATION SHEETS 1433 and 1434)

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Pot life (at application viscosity)

| Mixed product temperature | Pot life |
|---------------------------|----------|
| 10°C (50°F) | 6 hours |
| 20°C (68°F) | 4 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.

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 – TOXIC HAZARD | INFORMATION SHEET | 1431 |
| • SAFE WORKING IN CONFINED SPACES | INFORMATION SHEET | 1433 |
| • DIRECTIVES FOR VENTILATION PRACTICE | INFORMATION SHEET | 1434 |
| • RELATIVE HUMIDITY – SUBSTRATE TEMPERATURE – AIR TEMPERATURE | INFORMATION SHEET | 1650 |

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