

SIGMA ECOFLEET® 690

DESCRIPTION

High-activity, self-polishing antifouling, for extreme and aggressive fouling conditions

PRINCIPAL CHARACTERISTICS

- TBT-free self-polishing antifouling for maintenance and repair market
- Specifically designed for coastal and low activity vessels
- Controls shell and weed fouling for service periods up to 60 months, depending on vessel type, operation characteristics and system applied
- Controlled polishing rate to give effective protection in accordance with the specified film thickness
- Complies with IMO Antifouling Systems Convention

COLOR AND GLOSS LEVEL

- Redbrown, brown
- Flat

BASIC DATA AT 20°C (68°F)

| Data for mixed product | |
|--------------------------------|---|
| Number of components | One |
| Mass density | 1.9 kg/l (15.9 lb/US gal) |
| Volume solids | 70 ± 2% |
| VOC (Supplied) | Directive 2010/75/EU, SED: max. 141.0 g/kg max. 267.0 g/l (approx. 2.2 lb/US gal) China GB 38469-2019 (tested) 267.0 g/l (approx. 2.2 lb/gal) |
| Recommended dry film thickness | 75 - 210 µm (3.0 - 8.3 mils) depending on system |
| Theoretical spreading rate | 9.3 m ² /l for 75 µm (374 ft ² /US gal for 3.0 mils) 7.0 m ² /l for 100 µm (281 ft ² /US gal for 4.0 mils) |
| Dry to touch | 1 hour |
| Overcoating Interval | Minimum: 6 hours |
| Refloating time | Minimum: 8 hours |
| Shelf life | At least 12 months when stored cool and dry |

Notes:

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

RECOMMENDED SUBSTRATE CONDITIONS AND TEMPERATURES

Substrate conditions

- Suitable high performance anticorrosive tiecoats
- Previous coat must be sound, dry and free from any contamination



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Substrate temperature and application conditions

- Substrate temperature during application should be at least 3°C (5°F) above dew point

INSTRUCTIONS FOR USE

- Stir well before use
- The temperature of the paint 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

Airless spray

Recommended thinner

THINNER 21-06

Volume of thinner

0 - 3%, depending on required thickness and application conditions

Nozzle orifice

Approx. 0.53 - 0.69 mm (0.021 - 0.027 in)

Nozzle pressure

12.0 - 15.0 MPa (approx. 120 - 150 bar; 1741 - 2176 p.s.i.)

Brush/roller

- Only for touch-up and repair

Recommended thinner

THINNER 21-06

Volume of thinner

0 - 3%

Cleaning solvent

THINNER 21-06

ADDITIONAL DATA

| Spreading rate and film thickness | |
|--|---|
| DFT | Theoretical spreading rate |
| 75 µm (3.0 mils) | 9.3 m ² /l (374 ft ² /US gal) |
| 100 µm (4.0 mils) | 7.0 m ² /l (281 ft ² /US gal) |
| 150 µm (6.0 mils) | 4.7 m ² /l (187 ft ² /US gal) |
| 200 µm (8.0 mils) | 3.5 m ² /l (140 ft ² /US gal) |

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| Overcoating interval for DFT up to 150 µm (6.0 mils) | | | | | | | |
|--|----------------------|-------------|------------|------------|-------------|-------------|-------------|
| Overcoating with... | Interval | -5°C (23°F) | 0°C (32°F) | 5°C (41°F) | 10°C (50°F) | 20°C (68°F) | 30°C (86°F) |
| itself | Minimum | 30 hours | 24 hours | 18 hours | 12 hours | 6 hours | 4 hours |
| | Refloating - Minimum | 36 hours | 30 hours | 24 hours | 12 hours | 8 hours | 6 hours |

Notes:

- Longer drying times may be necessary at higher DFT and under unfavorable atmospheric conditions
- Above table is a fair indication for normal application conditions. Please contact your PPG representative for data at much lower and higher DFT conditions

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

- | | | |
|--|-------------------|------|
| • 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 |

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Depending on specific country of application the following versions are available:

| Article code | Color | Reference |
|--------------|----------|------------|
| 296988 | redbrown | 2008002200 |
| 296989 | brown | 2000002200 |

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