

SIGMA ECOFLEET® 270

DESCRIPTION

High active self polishing antifouling for deep sea and coastal vessels

PRINCIPAL CHARACTERISTICS

- Antifouling providing excellent value for commercial marine use
- Fouling protection based on wide spectrum biocide composition
- Based on long and successful technology track record
- Compatible with a wide range of anticorrosive underwater hull systems
- Suitable on coated steel hulls on seagoing vessels, workboats and barges

COLOR AND GLOSS LEVEL

- Red, redbrown
- Flat

BASIC DATA AT 20°C (68°F)

| Data for mixed product | |
|--------------------------------|--|
| Number of components | One |
| Mass density | 1.7 kg/l (14.2 lb/US gal) |
| Volume solids | 66 ± 2% |
| VOC (Supplied) | Directive 2010/75/EU, SED: max. 240.0 g/kg EPA Method 24: 390.0 g/ltr (3.3 lb/USgal) China GB 38469-2019 (tested) 347.9 g/l (approx. 2.9 lb/gal) |
| Recommended dry film thickness | 75 - 170 µm (3.0 - 6.7 mils) depending on system |
| Theoretical spreading rate | 6.6 m ² /l for 100 µm (265 ft ² /US gal for 4.0 mils) |
| Overcoating Interval | Minimum: 4 hours |
| Refloating time | Minimum: 6 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

- Dependent upon condition of hull and existing antifouling, surface cleaning will vary from high pressure water cleaning to abrasive blasting
- For touch-up and repair; apply additional material after removing dirt, contaminants and old loose coatings or antifouling



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Existing fouled areas

- Remove fouling by scraping and/or sweep blast
 - Loose paint should be removed by high pressure water wash
 - Tightly adhering anticorrosive and antifouling coating may remain
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Substrate temperature and application conditions

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

Recommended thinner

THINNER 21-06

Volume of thinner

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

Airless spray

Recommended thinner

THINNER 21-06

Volume of thinner

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

Nozzle orifice

Approx. 0.53 – 0.64 mm (0.021 – 0.025 in)

Nozzle pressure

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

Cleaning solvent

THINNER 21-06

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ADDITIONAL DATA

| Spreading rate and film thickness | |
|-----------------------------------|---|
| DFT | Theoretical spreading rate |
| 75 µm (3.0 mils) | 8.8 m ² /l (353 ft ² /US gal) |
| 100 µm (4.0 mils) | 6.6 m ² /l (265 ft ² /US gal) |
| 125 µm (5.0 mils) | 5.3 m ² /l (212 ft ² /US gal) |
| 150 µm (6.0 mils) | 4.4 m ² /l (176 ft ² /US gal) |

| Overcoating interval for DFT up to 125 µm (5.0 mils) | | | | | | |
|--|----------------------|------------|-------------|-------------|-------------|--------------|
| Overcoating with... | Interval | 0°C (32°F) | 10°C (50°F) | 20°C (68°F) | 30°C (86°F) | 50°C (122°F) |
| itself | Minimum | 12 hours | 8 hours | 4 hours | 2 hours | 1 hour |
| | Refloating - Minimum | 24 hours | 10 hours | 6 hours | 4 hours | 2 hours |

Notes:

- The above data are a fair indication for normal application conditions
- Longer drying times may be necessary at higher DFT and under unfavorable atmospheric 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 |
| • SAFE WORKING IN CONFINED SPACES | INFORMATION SHEET | 1433 |



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

| Article code | Color | Reference |
|--------------|----------|--------------|
| 369733 | brown | 2000002200 |
| 369732 | redbrown | 2008002200 |
| 395548 | brown | 200000KR2200 |
| 395547 | redbrown | 200800KR2200 |

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