

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 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
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
 - Substrate temperature during application and curing should be above -5°C (23°F)
 - Relative humidity during application and curing should not exceed 85%
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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 hours
	Refloating - Minimum	24 hours	10 hours	6 hours	4 hours	2 hours

Notes:

- Longer drying times may be necessary at higher DFT and under unfavorable atmospheric conditions
- The above data are a fair indication for normal application conditions

SAFETY PRECAUTIONS

- See Safety Data Sheet and product label for complete safety and precaution requirements
- 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 & 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

- Information sheet | Explanation of product data sheets

WARRANTY

PPG warrants (i) its title to the product, (ii) that the quality of the product conforms to PPG's specifications for such product in effect at the time of manufacture and (iii) that the product shall be delivered free of the rightful claim of any third person for infringement of any U.S. patent covering the product. THESE ARE THE ONLY WARRANTIES THAT PPG MAKES AND ALL OTHER EXPRESS OR IMPLIED WARRANTIES, UNDER STATUTE OR ARISING OTHERWISE IN LAW, FROM A COURSE OF DEALING OR USAGE OF TRADE, INCLUDING WITHOUT LIMITATION, ANY OTHER WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE OR USE, ARE DISCLAIMED BY PPG. Any claim under this warranty must be made by Buyer to PPG in writing within five (5) days of Buyer's discovery of the claimed defect, but in no event later than the expiration of the applicable shelf life of the product, or one year from the date of the delivery of the product to the Buyer, whichever is earlier. Buyer's failure to notify PPG of such non-conformance as required herein shall bar Buyer from recovery under this warranty.



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AVAILABILITY OF PACKAGING

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

Article code	Color	Reference
395548	Brown	200000KR2200
369733	Brown	2000002200
369732	Redbrown	2008002200
395547	Redbrown	200800KR2200

