New Guard Coatings Group

A global reputation to protect.

The information herewith is given with the best of New Guard Coatings Group knowledge.

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This information is not exhaustive and it is the user's responsibility to ensure that this data sheet is the most current by contacting their local New Guard Coatings Group branch prior to using the coating/product.

SIGMA ECOFLEET® 290

DESCRIPTION

linear polishing antifouling, particularly suitable for deep sea going vessels

PRINCIPAL CHARACTERISTICS

- TBT-free self-polishing antifouling for new-building and maintenance
- Controls settlement of shell and weed fouling for prolonged periods, depending on sailing pattern and routes
- Controlled polishing rate to give effective protection in accordance with the specified film thickness and smoothing of the surface
- Complies with IMO Antifouling Systems Convention

COLOR AND GLOSS LEVEL

- Redbrown, brown, black
- Flat

BASIC DATA AT 20°C (68°F)

Data for mixed product	
Number of components	One
Mass density	1.8 kg/l (15.0 lb/US gal)
Volume solids	55 ± 2%
VOC (Supplied)	Directive 1999/13/EC, SED: max. 233.0 g/kg max. 420.0 g/l (approx. 3.5 lb/US gal)
Recommended dry film thickness	75 - 160 µm (3.0 - 6.3 mils) depending on system
Theoretical spreading rate	7.3 m^2/l for 75 µm (294 ft^2/US gal for 3.0 mils)
Dry to touch	1 hour
Overcoating Interval	Minimum: 6 hours
Refloating time	Minimum: 8 hours
Shelf life	At least 18 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
- Multicoat roller or brush application is not recommended. Maximum DFT achievable by brush or roller is 50 µm (2.0 mils)

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)	7.3 m^2/l (294 ft^2/US gal)
100 µm (4.0 mils)	5.5 m^2/l (221 ft^2/US gal)
160 µm (6.3 mils)	3.4 m^2/l (140 ft^2/US gal)

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Overcoating interval for DFT up to 160 µm (6.3 mils)					
Overcoating with...	**Interval**	**5°C (41°F)**	**10°C (50°F)**	**20°C (68°F)**	**30°C (86°F)**
itself	Minimum	12 hours	10 hours	6 hours	4 hours
	Refloating - Minimum	24 hours	12 hours	8 hours	6 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
- For systems with more than two layers of antifouling minimum drying time before overcoating and minimum time before refloating should be increased

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

WARRANTY

SIGMA ECOFLEET® 290

LIMITATIONS OF LIABILITY

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

Article code	Color	Reference
218998	A redbrown	2008002200
269704	A brown	2000002200
249481	S redbrown	2008002200
249482	S brown	2000002200
331470	S redbrown	2008002150
331471	S brown	2000002150