



# New Guard Coatings Group

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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.

[www.newguardcoatings.com](http://www.newguardcoatings.com)

NORTH • SOUTH EAST • MIDLANDS • NORTH WEST • HULL • SCOTLAND

# 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 1999/13/EC, SED: max. 141.0 g/kg max. 267.0 g/l (approx. 2.2 lb/US gal)
Recommended dry film thickness	75 - 210 µm (3.0 - 8.3 mils) depending on system
Theoretical spreading rate	9.3 m <sup>2</sup> /l for 75 µm (374 ft <sup>2</sup> /US gal for 3.0 mils) 7.0 m <sup>2</sup> /l for 100 µm (281 ft <sup>2</sup> /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



# SIGMA ECOFLEET® 690

## **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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### **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.)

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### **Brush/roller**

- Only for touch-up and repair

#### **Recommended thinner**

THINNER 21-06

#### **Volume of thinner**

0 - 3%

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### **Cleaning solvent**

THINNER 21-06

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## **ADDITIONAL DATA**

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

# SIGMA ECOFLEET® 690

Overcoating interval for DFT up to 150 µm (6.0 mils)					
Overcoating with...	Interval	5°C (41°F)	10°C (50°F)	20°C (68°F)	30°C (86°F)
itself	Minimum	18 hours	12 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 drydockings
- longer dryings times may be necessary at higher dft and under unfavourable 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 |

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# SIGMA ECOFLEET® 690

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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