SIGMA ECOFLEET 290

(SIGMAPLANE ECOL 1154)

3 pages September 2005
Revision of October 2004

DESCRIPTION TBT-free selfpolishing antifouling with cuprous oxide and organic biocides

as active ingredients

PRINCIPAL CHARACTERISTICS – TBT-free selfpolishing antifouling for new building and maintenance

 controls shell and weed fouling for service periods up to 36 months for the vertical sides and 60 months on flat bottom, depending on vessel

type, operation characteristics and system applied

- 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

COLOURS AND GLOSS redbrown, brown and black - flat

BASIC DATA AT 20°C (1 g/cm³ = 8.25 lb/US gal; 1 m²/l = 40.7 ft²/US gal)

 $\begin{array}{ll} \text{Mass density} & 1.8 \text{ g/cm}^3 \\ \text{Volume solids} & 55 \pm 2\% \end{array}$

VOC (supplied) max. 225 g/kg (Directive 1999/13/EC, SED)

max. 397 g/l (approx. 3.3 lb/gal) 75 - 150 µm depending on system

Recommended dry film

thickness

Theoretical spreading rate 7.3 m²/l for 75 μ m, 5.5 m²/l for 100 μ m, 3.7 m²/l for 150 μ m

Touch dry after 1 hour at 20°C
Overcoating interval min. 6 hours at 20°C
Refloating time min. 8 hours *
Shelf life (cool and dry place) at least 12 months

Flash point 26°C

* see additional data

RECOMMENDED

SUBSTRATE CONDITIONS AND TEMPERATURES

previous coat; dry and free from any contamination

suitable high performance anticorrosive (coaltar epoxy, epoxy, vinyl tar)

substrate temperature should be at least 3°C above dew point

INSTRUCTIONS FOR USE – stir well before use

the temperature of the paint should preferably be above 15°C, otherwise

extra thinner may be required to obtain application viscosity

- too much solvent results in reduced sag resistance

AIRLESS SPRAY

Recommended thinner Sigma thinner 21-06

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

Nozzle orifice approx. 0.53 - 0.68 mm (= 0.021 - 0.027 in)

Nozzle pressure 12 - 15 MPa (= approx. 120 - 150 bar; 1700 - 2130 p.s.i.)



SIGMA ECOFLEET 290

(SIGMAPLANE ECOL 1154)

September 2005

BRUSH/ROLLER only for touch up and repair

multicoat roller or brush application is not recommended

max. dft achievable by brush or roller is 50 µm

Recommended thinner Volume of thinner

Sigma thinner 21-06

0 - 3%

CLEANING SOLVENT

Sigma thinner 21-06

SAFETY PRECAUTIONS

for paint and recommended thinners see safety sheets 1430, 1431 and

relevant material safety data sheets

this is a solvent based paint and care should be taken to avoid inhalation of spray mist or vapour as well as contact between the wet paint and exposed

skin or eyes

ADDITIONAL DATA

Film thickness and spreading rate

theoretical	7.3	5.5	3.7	
spreading rate m ² /l				
dft in µm	75	100	150	

Overcoating table for Sigma EcoFleet 290 at a dft of 100 µm

minimum drying time before overcoating with

substrate temperature	5°C	10°C	20°C	30°C
Sigma EcoFleet 290	18 hours	12 hours	6 hours	4 hours
refloating	24 hours	12 hours	8 hours	6 hours

- maximum overcoating time for SigmaCover 510 with Sigma EcoFleet 290 is 48 hours at 20°C
- the above data are a fair indication for normal drydockings
- longer drying times may be necessary at higher dft and under unfavourable atmospheric conditions

Worldwide availability

Whilst it is always the aim of Sigma Coatings to supply the same product on a worldwide basis, 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 see information sheet 1411 Safety indications see information sheet 1430

Safety in confined spaces and health safety

Explosion hazard - toxic hazard see information sheet 1431



DATA

SIGMA ECOFLEET 290

(SIGMAPLANE ECOL 1154)

September 2005

LIMITATION OF LIABILITY

The information in this data sheet is based upon laboratory tests we believe to be accurate and is intended for guidance only. All recommendations or suggestions relating to the use of the products made by Sigma Coatings, whether in technical documentation, or in response to a specific enquiry, or otherwise, are based on data which to the best of our knowledge are reliable. The products and information are designed for users having the requisite knowledge and industrial skills and it is the end-user's responsibility to determine the suitability of the product for its intended use.

Sigma Coatings has no control over either the quality or condition of the substrate, or the many factors affecting the use and application of the product. Sigma Coatings does therefore not accept any liability arising from loss, injury or damage resulting from such use or the contents of this data sheet (unless there are written agreements stating otherwise).

The data contained herein are liable to modification as a result of practical experience and continous product development. This data sheet replaces and annuls all previous issues and it is therefore the user's responsibility to ensure that this sheet is current prior to using the product.

The English text of this document shall prevail over any translation thereof.

DS 7297

 139362 redbrown
 2008002200

 139363 brown
 2000002200

 146036 black
 8000002200

