

# SIGMA ECOL IV

3 pages

July 2006  
Revision of November 2003

<b>DESCRIPTION</b>	classical tbt-free antifouling paint, pigmented with inorganic metal compounds
<b>PRINCIPAL CHARACTERISTICS</b>	<ul style="list-style-type: none"> <li>– controls common types of fouling for periods up to 18-24 months, depending on sailing pattern and system applied</li> <li>– must not be exposed to the atmosphere for longer than 96 hours before the dock is flooded</li> <li>– complies with IMO Antifouling Systems Convention</li> </ul>
<b>COLOURS AND GLOSS</b>	redbrown - semigloss
<b>BASIC DATA AT 20°C</b>	(1 g/cm <sup>3</sup> = 8.25 lb/US gal; 1 m <sup>2</sup> /l = 40.7 ft <sup>2</sup> /US gal)
Mass density	1.4 g/cm <sup>3</sup>
Volume solids	50 ± 2%
VOC (supplied)	
Recommended dry film thickness	50 µm per coat
Theoretical spreading rate	10.0 m <sup>2</sup> /l for 50 µm
Touch dry after	0.5 - 1 hour at 20°C
Overcoating interval	min. 6 hours at 20°C max. no limitations
Shelf life (cool and dry place)	at least 12 months
<b>RECOMMENDED SUBSTRATE CONDITIONS AND TEMPERATURES</b>	<ul style="list-style-type: none"> <li>– previous coat; dry and free from any contamination</li> <li>– substrate temperature should be at least 3°C above dew point</li> </ul>
<b>INSTRUCTIONS FOR USE</b>	<ul style="list-style-type: none"> <li>– stir well before use</li> <li>– the temperature of the paint should preferably be above 15°C, otherwise extra tapwater may be required to obtain application viscosity</li> <li>– too much solvent results in reduced sag resistance</li> </ul>
<b>AIRLESS SPRAY</b>	
Recommended thinner	Sigma thinner 20-05
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.)
<b>BRUSH/ROLLER</b>	
Recommended thinner	Sigma thinner 20-05
Volume of thinner	0 - 3%
<b>CLEANING SOLVENT</b>	Sigma thinner 20-05

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## 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

### *Overcoating table for Sigma Ecol IV at a dft of 50 µm*

minimum drying time before overcoating with before refloating

substrate temperature	5°C	10°C	20°C	30°C
Sigma Ecol IV	18 hours	12 hours	6 hours	4 hours
minimum	18 hours	12 hours	6 hours	4 hours
maximum	96 hours	96 hours	96 hours	96 hours

- the above data are a fair indication for normal application conditions
- longer drying times may be necessary at higher dft and under unfavourable atmospheric conditions

## Worldwide availability

Whilst it is always the aim of SigmaKalon Marine & Protective 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

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## 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 Sigma Coatings products made by SigmaKalon Marine & Protective 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.

SigmaKalon Marine & Protective 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. SigmaKalon Marine & Protective 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 continuous 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.

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