

**Description:**

HEMPEL'S ANTIFOULING OCEANIC 4000 FB is a selfpolishing SPC antifouling with high solids content. An efficient bioactive mixture makes it suitable for protection on vessels operating in medium aggressive fouling waters. The controlled selfpolishing is made possible partly by hydrolysis and partly by ion exchange. The patented inorganic fibre reinforcement of the binder ensures good mechanical strength.

This product does not contain organotin compounds acting as biocides and complies with the International Convention on the Control of Harmful Antifouling Systems on Ships as adopted by IMO October 2001 (IMO document AFS/CONF/26).

**Recommended use:**

As a selfpolishing antifouling for newbuildings and maintenance of flat bottom area for dry-docking intervals of up to 60 months.

Aluminium hulls: see REMARKS overleaf.

**Availability:**

Part of Group Assortment. Local availability subject to confirmation.

**PHYSICAL CONSTANTS:**

Shade nos/Colours: 51110\* / Red, see REMARKS overleaf  
Finish: Flat  
Volume solids, %: 58 ± 1  
Theoretical spreading rate: 5.8 m<sup>2</sup>/l [232.6 sq.ft./US gallon] - 100 micron/4 mils  
Flash point: 24 °C [75.2 °F]  
Specific gravity: 1.7 kg/litre [14.1 lbs/US gallon]  
Surface-dry: 15 minute(s) 20°C/68°F  
Through-dry: 1.5 hour(s) 20°C/68°F  
VOC content: 382 g/l [3.2 lbs/US gallon]  
Shelf life: 3 years (25°C/77°F) from time of production.

*\*other shades according to assortment list.*

*The physical constants stated are nominal data according to the HEMPEL Group's approved formulas.*

**APPLICATION DETAILS:**

Application method: Airless spray see REMARKS overleaf  
Thinner (max.vol.): 08080 (5%) Use under exceptional circumstances only  
Nozzle orifice: 0.027 - 0.031 "  
Nozzle pressure: 270 bar [3915 psi]  
(Airless spray data are indicative and subject to adjustment)  
Cleaning of tools: HEMPEL'S THINNER 08080  
Indicated film thickness, dry: 100 micron [4 mils] see REMARKS overleaf  
Indicated film thickness, wet: 160 micron [6.4 mils]  
Overcoat interval, min: According to specification.  
Overcoat interval, max: According to specification.

**Safety:**

Handle with care. Before and during use, observe all safety labels on packaging and paint containers, consult HEMPEL Safety Data Sheets and follow all local or national safety regulations.

SURFACE PREPARATION:	<p>According to specification.</p> <p><b>Existing old self-polishing or ablative antifouling:</b> Remove possible oil and grease etc. with suitable detergent, followed by high pressure fresh water cleaning for a thorough removal of any possible weak structure of leached antifouling.</p> <p><b>Sealer:</b> Whether to use a sealer coat/tiecoat or not depends on the type and condition of the existing antifouling.</p>
APPLICATION CONDITIONS:	Apply only on a dry and clean surface with a temperature above the dew point to avoid condensation. In confined spaces provide adequate ventilation during application and drying.
PRECEDING COAT:	According to specification. Recommended systems are: HEMPADUR 45182, HEMPADUR TIE 47182.
SUBSEQUENT COAT:	None, or as per specification.
REMARKS:	This product contains heavy particles. Stir well before use. By providing a constantly active surface during its lifetime, this antifouling is gradually sacrificed in the process.
Colours/Colour stability:	<p>The initial colour of the paint may vary within the same shade from batch to batch.</p> <p>After exposure to seawater, the initial colour may vary within the same shade. This has no influence on the performance of the antifouling.</p>
Redocking:	<p>At redocking, HEMPEL'S ANTIFOULING PAINT can be overcoated after thorough cleaning and removal of any poorly adhering surface layer or leached layer on the antifouling.</p> <p>Reference is made to SURFACE PREPARATION above. If overcoated with other types of antifouling, other surface preparation methods may be required - contact HEMPEL.</p>
Aluminium hulls:	<b>May be specified on aluminium hulls provided an efficient anticorrosive system in minimum 2 coats of 150 micron/6 mils each has been applied. The anticorrosive system must stay intact during service in order to avoid corrosion of the aluminium caused by the cuprous oxide content of the Paint.</b>
Application equipment:	<p>Standard airless heavy-duty spray equipment:</p> <p>Pump ratio: min 45:1 (see Note below)</p> <p>Pump output: min 12 litres/minute (theoretical)</p> <p>Spray hoses: max 15 metres/50 feet, 3/8" internal diameter; min 3 metres/10 feet, 1/4" internal diameter</p> <p><b>Note:</b> If longer spray hoses are necessary, up to 50 metres/150 feet hose (1/2" internal diameter) can be added. The pump ratio must be raised to 60:1 or more, however, the high output capacity of the pump must be maintained.</p> <p>A <b>reversible nozzle</b> is recommended.</p> <p><b>Filter:</b> Surge tank filter and tip filter should be removed.</p>
Film thicknesses/thinning:	<p>May be specified in another film thickness than indicated depending on purpose and area of use. This will alter spreading rate and may influence drying time and overcoating interval. Normal range dry is: 80-175 micron/3.2-7 mils</p>
Undocking:	<p>Minimum undocking time depends on number of coats applied, film thickness, the prevailing temperature and the subsequent exposure/service conditions. For further information, please consult the corresponding painting specification. Maximum undocking time depends on the atmospheric conditions (UV radiation, temperature, degree of atmospheric pollution, etc.).</p> <p>Exposure to the atmosphere in up to 6 months normally presents no problems but extraordinary contamination may call for a freshwater high pressure hosing - contact Hempel.</p>
Overcoating note:	<p>As per specification depending on existing hull condition, trading pattern, and intended service life.</p> <p>No maximum recoat interval, but after prolonged exposure to polluted atmosphere, remove accumulated contamination by high pressure fresh water cleaning and allow to dry before applying next coat.</p>
Note:	<b>Hempel's Antifouling Oceanic FB+ 7395B For professional use only.</b>
ISSUED BY:	HEMPEL A/S

7395B51110

This Product Data Sheet supersedes those previously issued.

For explanations, definitions and scope, see "Explanatory Notes" available on [www.hempel.com](http://www.hempel.com). Data, specifications, directions and recommendations given in this data sheet represent only test results or experience obtained under controlled or specially defined circumstances. Their accuracy, completeness or appropriateness under the actual conditions of any intended use of the Products herein must be determined exclusively by the Buyer and/or User.

The Products are supplied and all technical assistance is given subject to HEMPEL's GENERAL CONDITIONS OF SALES, DELIVERY AND SERVICE, unless otherwise expressly agreed in writing. The Manufacturer and Seller disclaim, and Buyer and/or User waive all claims involving, any liability, including but not limited to negligence, except as expressed in said GENERAL CONDITIONS for all results, injury or direct or consequential losses or damages arising from the use of the Products as recommended above, on the overleaf or otherwise. Product data are subject to change without notice and become void five years from the date of issue.