

<b>Description:</b>	HEMPEL'S ANTIFOULING OCEANIC+ is a high solids SPC antifouling based on zinc carboxylate and acrylic binders. OCEANIC+ delivers strong predictable antifouling protection through a very stable selfpolishing mechanism, which is based on chemical hydrolysis and a strong 3 component biocide package. This high polishing version outperforms other antifoulings particularly in slow steaming. The patented microfibers give OCEANIC+ a best-in-class mechanical strength to avoid cracking and peeling. 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).
<b>Recommended use:</b>	For both newbuildings and maintenance of underwater hull and boottop for up to 60 months drydocking interval.
<b>Availability:</b>	Part of Group Assortment. Local availability subject to confirmation.
<b>PHYSICAL CONSTANTS:</b>	
Shade nos/Colours:	51110* / Red see REMARKS overleaf
Finish:	Flat
Volume solids, %:	64 ± 1
Theoretical spreading rate:	6.4 m <sup>2</sup> /l [256.6 sq.ft./US gallon] - 100 micron/4 mils
Flash point:	23 °C [73.4 °F]
Specific gravity:	1.8 kg/litre [15 lbs/US gallon]
Surface-dry:	15 minute(s) 20°C/68°F
Through-dry:	2 hour(s) 20°C/68°F
VOC content:	347 g/l [2.9 lbs/US gallon]
Shelf life:	3 years (25°C/77°F) from time of production. <i>*other shades according to assortment list.</i>
	<i>The physical constants stated are nominal data according to the HEMPEL Group's approved formulas.</i>
<b>APPLICATION DETAILS:</b>	
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:	175 micron [7 mils]
Overcoat interval, min:	According to specification.
Overcoat interval, max:	According to specification.
<b>Safety:</b>	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:	According to specification. <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. <b>Sealer:</b> Whether to use a sealer coat/tiecoat or not depends on the type and condition of the existing antifouling.
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:	The initial colour of the paint may vary within the same shade from batch to batch. After exposure to seawater, the initial colour may vary within the same shade. This has no influence on the performance of the antifouling.
Redocking:	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. Reference is made to SURFACE PREPARATION above. If overcoated with other types of antifouling, other surface preparation methods may be required - contact HEMPEL.
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:	Standard airless heavy-duty spray equipment: Pump ratio: min 45:1 (see Note below) Pump output: min 12 litres/minute (theoretical) Spray hoses: max 15 metres/50 feet, 3/8" internal diameter; min 3 metres/10 feet, 1/4" internal diameter <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. A <b>reversible nozzle</b> is recommended. <b>Filter:</b> Surge tank filter and tip filter should be removed.
Film thicknesses/thinning:	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: 80-150 micron/3.2-6 mils
Undocking:	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.). 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.
Overcoating intervals:	As per specification depending on existing hull condition, trading pattern, and intended service life. No maximum recoat interval, but after prolonged exposure to polluted atmosphere, remove accumulated contamination by high pressure fresh water cleaning.
Note:	<b>HEMPEL'S ANTIFOULING OCEANIC+ 73900 For professional use only.</b>
ISSUED BY:	HEMPEL A/S

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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.

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