

HEMPEL'S ANTIFOULING NAUTIC® SP-ACE 79031

Description: HEMPEL'S ANTIFOULING NAUTIC SP-ACE 79031 is a high-build, high-solids self-polishing antifouling. It is based on an organotin copolymer reinforced with extra bio-active compounds.
The copolymer hydrolyses in seawater and releases bio-active compounds at a controlled and constant rate. This self-renewing effect ensures that a bio-active interface to the seawater is produced and maintained constantly during the entire service life of the system. The system provides a certain control of roughness.

Recommended use: As a high performance fouling control coating for ship hulls operating worldwide at medium to high speed. This product is especially suited for vessels with high activity and short port calls, ie will cover the need for most deep-sea trading vessels.
To be specified by taking operational parameters into consideration and in accordance with HEMPEL'S Computer Aided Specification System (CAS).

Availability: Subject to confirmation.

PHYSICAL CONSTANTS:

Colours/Shade nos:	Light red/50300 - Red/51110 (<i>see REMARKS overleaf</i>)
Finish:	Flat
Volume solids:	55%
Theoretical spreading rate:	4.6 m ² /litre - 120 micron 184 sq.ft/US gallon - 4.8 mils
Flash point:	27°C/81°F
Specific gravity:	1.9 kg/litre- 15.9 lbs/US gallon
Dry to touch:	5 (approx.) hours at 20°C/68°F
V.O.C.:	430 g/litre - 3.6 lbs/US gallon

*The physical constants are subject to normal manufacturing tolerances.
Further reference is made to "Explanatory Notes" in the Hempel Book.*

APPLICATION DETAILS:

Application method:	Airless spray (<i>see REMARKS overleaf</i>)	Brush/Roller (<i>see REMARKS overleaf</i>)
Thinner (max. vol.):	08080 (5%)	08080 (5%)
Nozzle orifice:	.023"-.027"	
Nozzle pressure:	250 bar/3600 psi (<i>Airless spray data are indicative and subject to adjustment</i>)	
Cleaning of tools:	THINNER 08080	
Indicated film thickness, dry:	120 micron/4.8 mils (<i>see REMARKS overleaf</i>)	
Indicated film thickness, wet:	225 micron/9 mils	
Recoat interval, min:	7 hours (20°C/68°F)	
Recoat interval, max:	See REMARKS overleaf	

Issued: July 1998

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SURFACE	Existing organotin copolymer based selfpolishing antifouling: Remove possible oil and grease
PREPARATION:	etc. with suitable detergent, followed by careful high pressure fresh water cleaning. Ensure that any possible leached surface layer is removed effectively. Allow the surface to dry before recoating.
APPLICATION CONDITIONS:	The surface must be completely clean and dry at the time of application and its temperature must be above the dew point to avoid condensation. In confined spaces such as sea chests and stagnant air under large flat bottoms provide adequate ventilation during application and drying.
PRECEDING COAT:	HEMPANYL TAR 16280, HEMPADUR 45190 or according to specification. Note: Tar bleeding may occur when using HEMPANYL TAR 1628 or HEMPADUR 4519. The effect is only cosmetic and has no negative influence on the anticorrosive or the antifouling properties of the system.
SUBSEQUENT COAT:	None or as per specification.
REMARKS:	<p>This product contains heavy particles. Stir well before use.</p> <p>By providing a constantly active surface during its lifetime, this antifouling is gradually sacrificed in the process. The colour of the system changes in accordance with the colours of the coats applied. Light red 50300 changes to whitish in direct contact with seawater.</p> <p>Indicated film thickness will vary according to specification. This will alter spreading rate and may influence drying time. In case of multi-coat application, drying time and minimum recoat interval will be influenced by the number of coats and by the thickness of each coat applied - reference is made to the corresponding painting specification.</p> <p>Range and control of dry film thickness: 60 micron/2.4 mils to 160 micron/6.4 mils. Keep thinning to a minimum to ensure that correct film thickness is obtained. The proper way of governing the film thickness is to sub-divide the areas to be painted and calculate the amount of paint to be applied on each sub-divided area. The exact amount of paint calculated must be applied evenly on the area. For further information, please consult the corresponding painting specification.</p> <p>If roller/brush application exceptionally is utilized (e.g. to line cut) more coats are necessary to achieve the recommended film thickness.</p> <p>Recommended number of coats: As per specification depending on existing hull condition, trading pattern and intended service life.</p> <p>Recoat interval: 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> <p>Undocking: Minimum undocking time depends on number of coats applied, film thickness, and the prevailing temperature. For further information, please consult the corresponding painting specification.</p> <p>Maximum undocking time depends on the exposure conditions, degree of air pollution, etc. The most important factor is to carry out a thorough high pressure fresh water cleaning after prolonged exposure. Outfitting of up to 6 months followed by such cleaning normally presents no problem. Longer outfitting periods to be evaluated from case to case. The recommended maximum undocking interval relates to vertical bottom only. Flat bottom, which has not been exposed to direct sunlight, will for all normal practical building schedules have a no-maximum value.</p>
Note:	HEMPEL'S ANTIFOULING NAUTIC SP-ACE 79031 is for professional use only.
SAFETY:	Handle with care. Before and during use, observe all safety labels on packaging and paint containers, consult HEMPEL Material Safety Data Sheets and follow all local or national safety regulations. Harmful or fatal if swallowed; immediately seek medical assistance if swallowed. Avoid inhalation of possible solvent vapours or paint mist, as well as paint contact with skin and eyes. Apply only in well ventilated areas and ensure that adequate forced ventilation exists when applying paint in confined spaces or when the air is stagnant. Always take precautions against the risks of fire and explosions.

This Product Data Sheet supersedes those previously issued. For definition and scope, see explanatory notes to applicable Product Data Sheets. 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.

Issued by HEMPEL'S MARINE PAINTS A/S.

July 1998 - 7903150300CO002