

HEMPEL'S ANTIFOULING COMBIC* 7199B

TIN-FREE

Description:	HEMPEL'S ANTIFOULING COMBIC 7199B is a tin-free, self-polishing antifouling, which has a high content of cuprous oxide and organic bioactive material.
Recommended use:	As antifouling to be used when paints containing tin are not suitable. As an antifouling for maintenance of bottom on vessels operating in global trade and with short idle periods.
Availability:	Subject to confirmation.

PHYSICAL CONSTANTS:

Colours/Shade nos:	Light red/50300 - Red/51110
Finish:	Flat
Volume solids:	62%
Theoretical spreading rate:	6.2 m ² /litre - 100 micron 249 sq.ft./US gallon - 4 mils
Flash point:	23°C/73°F
Specific gravity:	1.8 kg/litre - 15.0 lbs/US gallon
Dry to touch:	4-5 hours at 20°C/68°F
V.O.C.:	371 g/litre - 3.1 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.):	0808 (5%)	0808 (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:	HEMPEL'S THINNER 0808	
Indicated film thickness, dry:	100 micron/4 mils (<i>see REMARKS overleaf</i>)	
Indicated film thickness, wet:	175 micron/7 mils	
Recoat interval, min:	8 hours (20°C/68°F)	
Recoat interval, max:	See REMARKS overleaf	

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SURFACE PREPARATION:	<p>Existing old selfpolishing or ablative tin-free antifouling: Remove possible oil and grease etc. with suitable detergent, followed by high pressure fresh water cleaning.</p> <p>It is imperative to remove possible weak structure of the old antifouling as well as the "leached" layer. This must be done immediately after indocking and before drying out of the surface. The high pressure hosing executed must be very thorough, pressure minimum 400 bar/ 5.800 psi, keeping the same short distance to the surface (15-25 cm) all over. In severe cases, a water pressure up to 700 bar/10.000 psi and a nozzle-to-surface distance of only 10-15 cm may be necessary (minimum 10 cm to avoid damage to primers). This goes for vertical as well as flat bottom. Allow the surface to dry before coating.</p> <p>Sealer: Whether or not to use a sealer coat depends on the type and condition of the existing antifouling.</p>
APPLICATION CONDITIONS:	<p>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.</p> <p>In confined spaces such as sea chests and stagnant air under large flat bottoms provide adequate ventilation during application and drying.</p>
PRECEDING COAT:	HEMPATEX HI-BUILD 4633 or according to specification.
SUBSEQUENT COAT:	None.
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 turns 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: 80 micron/3.2 mils to 125 micron/5 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>Recommended number of coats: 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> <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>Undocking: <u>Minimum</u> 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><u>Maximum</u> undocking time depends on the atmospheric conditions (UV-radiation, temperature, degree of air pollution, etc.). It is important to carry out a thorough high pressure fresh water cleaning after prolonged exposure. Exposure to the atmosphere up to 6 months normally presents no problem when such cleaning is carried out.</p>
Note:	HEMPEL'S ANTIFOULING COMBIC 7199B is for professional use only.
SAFETY:	<p>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.</p>

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.

*This is a corporate trademark of the Hempel Group.

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