



# Product Data

## 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. 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 an antifouling for maintenance of bottom on vessels operating in global trade and with short idle periods.

**Availability:** Not included in Group Assortment. Availability subject to special agreement.

### PHYSICAL CONSTANTS:

Colours/Shade nos: Light red/50300 - Red/51110  
Finish: Flat  
Volume solids, %: 58 ± 1  
Theoretical spreading rate: 5.8 m<sup>2</sup>/litre - 100 micron  
233 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.: 375 g/litre - 3.1 lbs/US gallon

*The physical constants stated are nominal data according to the HEMPEL Group's approved formulas. They are subject to normal manufacturing tolerances and where stated, being standard deviation according to ISO 3534-1.*

### APPLICATION DETAILS:

Application method:	Airless spray (see REMARKS overleaf)	Brush/Roller (see REMARKS overleaf)
Thinner (max. vol.):	08080 (5%)	08080 (5%)
Nozzle orifice:	.023"-.027"	
Nozzle pressure:	250 bar/3600 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	
Recoat interval, min:	8 hours (20°C/68°F)	
Recoat interval, max:	See REMARKS overleaf	

**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. Avoid inhalation, avoid contact with skin and eyes, and do not swallow. Take precautions against possible risks of fire or explosions as well as protection of the environment. Apply only in well ventilated areas.



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SURFACE PREPARATION:	<p><b>Existing organotin copolymer based selfpolishing antifouling:</b> Remove possible oil and grease 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.</p> <p><b>Sealer:</b> Whether to use a sealer coat or not 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 46330 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.</p>
Colour:	<p>The colour of the system changes in accordance with the colours of the coats applied. The initial colour may vary within the same shade. Most pronounced in shade 50300. The final colour will appear after exposure to saltwater. This has no influence on the antifouling performance. Light red 50300 turns whitish in direct contact with seawater.</p> <p><b>Indicated film thickness</b> 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><b>Range and control of dry film thickness:</b> 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><b>Recommended number of coats:</b> 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><b>Undocking:</b> <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:	<b>HEMPEL'S ANTIFOULING COMBIC 7199B is for professional use only.</b>
ISSUED BY:	HEMPEL A/S - 7199B50300C0003

*This Product Data Sheet supersedes those previously issued.  
For explanations, definitions and scope, see "Explanatory Notes" in the HEMPEL Book.  
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