

Description:	HEMPEL'S SILIC ONE 77450 is a biocide free, high solid, fouling release coating which cures by air humidity. Based on silicone, a hydro gel micro layer provides a smooth, low surface energy repellent coating which prevents organisms attaching to the hull and propellers, while the silicone polymers facilitate self-cleaning.
Recommended use:	As a fouling release system for boats of glass fibre, steel, aluminium and plywood. For use below the waterline. For cold, temperate and warm waters.
Availability:	Part of European Yacht assortment. Local availability subject to confirmation.
PHYSICAL CONSTANTS:	
Shade nos/Colours:	19990*/ Black.
Finish:	Glossy
Volume solids, %:	71 ± 1
Theoretical spreading rate:	10.1 m ² /l [405 sq.ft./US gallon] - 70 micron/2.8 mils
Flash point:	35 °C [95 °F]
Specific gravity:	1 kg/litre [8.4 lbs/US gallon]
Dry to touch:	3 hour(s) , 20°C/68°F 5 hour(s) , 10°C/50°F
VOC content:	182 g/l [1.5 lbs/US gallon]
Shelf life:	Expiry date: 1.5 year 25°C/77°F (from date on lid)
	<small>*other shades according to assortment list. The physical constants stated are nominal data according to the HEMPEL Group's approved formulas.</small>
APPLICATION DETAILS:	
Application method:	Brush/ Roller
Thinner (max.vol.):	Do not dilute.
Pot life:	1 hour after opening the can
Cleaning of tools:	HEMPEL'S THINNER 808 (No 3) 08081
Indicated film thickness, dry:	70 micron [2.8 mils]
Indicated film thickness, wet:	100 micron [4 mils]
Overcoat interval, min:	16 hour(s) 20°C/68°F 16 hour(s) 10°C/50°F
Overcoat interval, max:	None.
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>Preparation: Always ensure all surfaces are clean, oil free and dry.</p> <p>Only apply HEMPEL'S SILIC ONE 77450 over HEMPEL'S SILIC ONE TIECOAT 27450.</p> <p>Existing old antifouling: Remove old antifouling down to the existing two component primer. Abrade, clean and dry the surface. Apply one coat of HEMPEL'S LIGHT PRIMER 45551, followed by one coat of HEMPEL'S SILIC ONE TIECOAT 27450 and then 2 coats of HEMPEL'S SILIC ONE 77450.</p> <p>Uncoated surface: Apply 4 coats of HEMPEL'S LIGHT PRIMER 45551, followed by one coat of HEMPEL'S SILIC ONE TIECOAT 27450 and then 2 coats of HEMPEL'S SILIC ONE 77450.</p> <p>Seasonal maintenance of Silicone system: High pressure fresh water clean. Clean the surface with a soft sponge with soap (HEMPEL'S BOAT SHAMPOO 67284), rinse the surface with fresh water and let the surface to dry. Apply one coat of the product.</p> <p>Damaged Silicone surface: If any part of the existing silicone system is damaged, or partly damaged, down to the tiecoat, apply 1 coat of HEMPEL'S SILIC ONE TIECOAT 27450 and then 1 coat of HEMPEL'S SILIC ONE 77450. Finally coat the entire surface with 1 coat of HEMPEL'S SILIC ONE 77450. Deeper damage down to the epoxy primer will require a coat of epoxy primer before the tiecoat layer. (See Repair Guide for details).</p>
PRODUCT APPLICATION:	<p>Method: Product application onto HEMPEL'S SILIC ONE TIECOAT 27450 is a maximum 48 hours or minimum of 8 hours at 20°C or 16 hours at 10°C. Pour paint into paint tray and replace lid. Fully load roller/bush with paint and apply with soft easy strokes to ensure complete coverage. Paint runs can be evened out before the paint dries.</p>
APPLICATION CONDITIONS :	<p>Use only where application and curing can proceed at temperatures above: 10°C/50°F. 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. Do not apply in direct sunlight. In confined spaces provide adequate ventilation during application and drying. The paint is sensitive to humidity. Do not open the can until just before application.</p>
RECOMMENDED DETERGENT :	HEMPEL'S PRE-CLEAN 67602 and HEMPEL'S BOAT SHAMPOO 67284
PRECEDING COAT:	HEMPEL'S SILIC ONE TIECOAT 27450
SUBSEQUENT COAT:	None.
REMARKS:	It is of utmost importance that thorough protection and cleaning procedures are followed before and after the application. After application clean all equipment very thoroughly.
Stirring:	Stir product well before use.
Storage Conditions:	Exposure to air and temperature variances should be avoided. Avoid direct sunlight. Keep containers tightly sealed. Store at temperatures: 5°C/41°F - 35°C/95°F.
Launching:	Minimum: 24 hour(s); Maximum: 1 month
Overcoating:	If the overcoating interval is exceeded between the tiecoat and the topcoat, then a new coat of tiecoat must be applied.
Note:	HEMPEL'S SILIC ONE 77450
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. 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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