



Product Data

HEMPEL'S SILIC ONE 77450

Description:

HEMPEL'S SILIC ONE 77450 is a high solid one component fouling release coating. HEMPEL'S SILIC ONE 77450 is based on silicone, is biocide free and cures by air humidity. HEMPEL'S SILIC ONE 77450 provides a smooth, low surface energy repellent surface with unique fouling release properties. A hydro gel micro layer prevents fouling organisms firmly adhering, while the silicone polymers facilitate self-cleaning.

Recommended use:

As an fouling release system for boats of glass fibre, steel, ferro-cement and aluminium. For cold, temperate and warm waters.

Service temperatures:**Availability:**

Part of the European Yacht assortment. Local availability subject to confirmation.

PHYSICAL CONSTANTS:

Colours/Shade nos.: 19990/Black
Finish: Glossy
Volume solids, %: 70 ± 1
Theoretical spreading rate: 6m²/litre - 105 micron
241 sq.ft./US gallon – 2.8 mils
Flash point: 35°C - 95°F
Specific gravity: 1.0 kg/litre – 8.3 lbs/US gallon
Dry to touch: 3 hours at 20°C/68°F
5 hours at 10°C / 50°F
V.O.C.: 253g/litre – 2.10 lbs/US gallon
Shelf life: 1 year. Depending on storage conditions, mechanical stirring may be necessary.

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: Roller / Brush
Thinner: Do not thin
Pot life: Max 1 hour after opening the can
Cleaning of tools: HEMPEL'S THINNER 08081
Indicated film thickness, dry: 105 micron
Indicated film thickness, wet: 150 micron
Recoat interval, min: 8 hours 20°C/68°F
16 hours 10°C/ 50°F
Recoat interval, max: 48 hours 20°C/68°F
48 hours 10°C/50°F

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:

Existing old antifouling: Remove old antifouling down to the existing two component primer. Clean the surface and remove possible oil and grease with a suitable detergent (HEMPEL'S PRE-CLEAN 67602) and sand with dry abrasive paper (P120). Carefully remove dust with fresh water. Allow the surface to dry and apply one coat of HEMPEL'S LIGHT PRIMER 45551, followed by one coat of HEMPEL'S SILIC ONE TIECOAT 27450, and then two coats of HEMPEL'S SILIC ONE 77450.

Maintenance/ recoating of old silicone system:

Intact Silicone: Clean the surface with HEMPEL'S BOAT SHAMPOO 67284 and a soft sponge. Rinse the surface with fresh water and let the surface dry and apply one coat of HEMPEL'S SILIC ONE 77450.

Damaged Silicone surface: If the existing silicone system is damaged, or partly damaged, apply one coat of HEMPEL'S SILIC ONE TIECOAT 27450 and then one coat of HEMPEL'S SILIC ONE 77450. Finally coat the entire surface with one coat of HEMPEL'S SILIC ONE 77450.

New surface: if the surface do not have an existing primer, apply 4 coats of HEMPEL'S LIGHT PRIMER 45551, followed by one coat of HEMPEL'S SILIC ONE TIECOAT 27450, and then two coats of HEMPEL'S SILIC ONE 77450.

APPLICATION

CONDITIONS:

Use only where application and curing can proceed at temperatures above 10°C. The temperature of the surface and that of the paint must be above 10°C. 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. The paint is sensitive to humidity, do not open the can until just before application.

PRECEDING COAT: HEMPEL'S SILIC ONE TIECOAT 27450.

SUBSEQUENT COAT: None .

REMARKS:

If the existing primer is a non-epoxy primer or a one component primer, then the primer must be removed, and the surfaced must be primed with 4 coats of HEMPEL'S LIGHT PRIMER 45551. (A one component primer cannot be overcoated with a two component primer). 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.

Cleaning of tools:

Very thorough cleaning with HEMPEL'S THINNER 08081.
DISPOSE OF CLEANING SOLVENTS AFTER USE. DO NOT RE-USE SOLVENTS AFTER CLEANING.

Application:

HEMPEL'S SILIC ONE 77450 should be applied with soft and easy strokes, do not press the roller/brush. Pour the paint into a paint tray, as it is important that the roller/brush has a copious amount of paint, when being applied. Any paint runs can be evened out, before the paint dries.

Storage conditions:

Must be stored under absolutely dry conditions, protect against seeping humidity.

Launching:

Not before 24 hours after application of the last coat, max one month after application. After prolonged exposure to polluted atmosphere, remove accumulated contamination by high pressure fresh water cleaning, or with a soft sponge with soap.

After season:

Re-application of SILIC ONE 77450 after season: On removal from water, high pressure wash with fresh water. To re-apply SILIC ONE 77450 before launching, simply clean the surface with a soft sponge with soap (HEMPEL'S BOAT SHAMPOO 67284), rinse the surface with fresh water and allow to dry. Apply one coat HEMPEL'S SILIC ONE 77450.

Note:

HEMPEL'S SILIC ONE 77450 is for commercial use only.

ISSUED BY:

HEMPEL A/S – 7745019990

This Product Data Sheet supersedes those previously issued.

For explanations, definitions and scope, see "Explanatory Notes" in the HEMPEL Book.

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Product data are subject to change without notice and become void five years from the date of issue.