



Fouling?

Don't fight it. Release it.

Discover HEMPEL's latest innovation and technological achievement – new Silicone Fouling Release System!



available in shades:



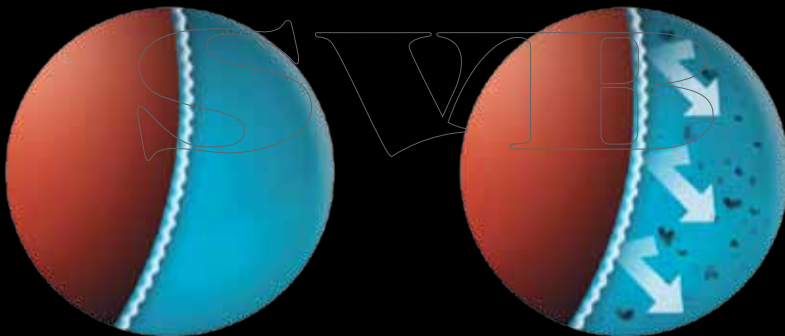
This amazing, biocide free product is based on silicone and hydrogel, which gives the coating surface water-like properties making it difficult for fouling organisms to attach to the hull and easy for them to be removed when the boat is in motion. Other amazing benefits are simple fouling cleaning and easy reapplication, resulting in long term cost reduction. **SILICONE** revolution will dazzle you with superiority. So, why wouldn't you give your boat a completely new treatment?

What is SILICONE Fouling Release System?

- It is a biocide free paint/method to prevent fouling
- It is a “non-stick paint”
- Biocide free
- Copper free

What is hydrogel?

Hydrogel is based on unique, non-reactive polymers that are added to the paint, creating an invisible barrier between the hull surface and the water. Fouling organisms perceive the hull as a liquid and are consequently attaching to a much lesser extent.



Unique, non-reactive polymers form a hydrogel layer between the substrate and water.

Fouling organisms perceive the hull as a liquid and are consequently unable to attach to the hull.

If the hydrogel is removed can it then build up again?

The polymers responsible for the formation of the hydrogel are evenly distributed in the paint film. If the original hydrogel is removed a new hydrogel layer instantly builds up when the polymer responsible for hydrogel formation comes into contact with water.

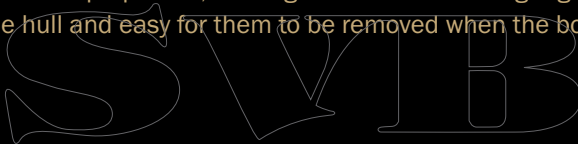
ANTIFOULING vs. FOULING RELEASE

Which fouling control method is right for you?

	ANTIFOULING
HOW IT WORKS?	Antifouling works by releasing biocides, in a controlled manner, to prevent fouling organisms from attaching to the boat. Upon exposure to water the top layer of antifouling is dissolved, and the biocides "leach" onto the coating surface, therefore keeping fouling organisms away.
COST DIFFERENCE	In the first year costs for antifouling are lower compared to the silicone fouling release system, but maintenance costs in the second year are higher.
TYPES OF BOATS	There are different antifouling paints for different types of boats, depending on the substrate.

SILICONE FOULING RELEASE

Unlike antifouling, the **SILICONE** Fouling Release System doesn't rely on biocides. This product is based on silicone and hydrogel, which gives the coating surface water-like properties, making it difficult for fouling organisms to attach firmly to the hull and easy for them to be removed when the boat is in motion.



SILICONE Fouling Release System has higher costs in the first year, but maintenance costs in the second year will be lower. **SILICONE** reduces the friction, hence increasing speed and saving fuel.

SILICONE Fouling Release System can be used on all types of boats, except wood.

Untreated (new) surfaces:

Clean with a suitable detergent and sand with dry abrasive paper (P120). Carefully clean with water and allow the surface to dry. To ensure good protection apply 4 coats of Light Primer 45551. (Use the recoating interval stated on the tin).

Previously coated surfaces:

In order to obtain best results, remove all old antifouling down to epoxy coating. Carefully clean with water and allow the surface to dry. Apply one coat of Light Primer 45551.

Please read the full instructions before painting and follow all instructions carefully.

Painting should be avoided if there is a risk of rain!

TOOLS:

Short haired or felt roller is ideal for the application of tiecoat and topcoat.

1. Apply one coat of LIGHT PRIMER 45551***2. Apply one coat of SILICONE TIECOAT 27450***

The paint is sensitive to humidity, therefore, only open the tin just before use.

The tiecoat must be applied to full coverage to ensure adhesion, a wet film thickness of 100 microns is recommended. Pour the paint into a paint tray and replace lid during application.

Overcoating intervals:**Tiecoat application at:**

20 °C: min 4 hours, max 72 hours after the application of Light Primer

10 °C: min 6 hours, max 72 hours after the application of Light Primer

*In case the recoating interval is exceeded, a new coat of Light Primer/Tiecoat must be applied accordingly.

The paint can be used up to 1 hour after opening the tin. A tin that has been opened cannot be stored for later use.



3. Apply two coats of **SILICONE 77450**

The paint is sensitive to humidity, therefore, only open the tin just before use.

For the first application of **SILICONE 77450**, two coats are required.
For subsequent seasons one coat will be sufficient.

Pour the paint into a paint tray and replace lid during application.

SILICONE can be used up to 1 hour after opening the tin. A tin that has been opened cannot be stored for later use.

• FIRST COAT OF **SILICONE**

Apply at least 100 micron wet.

Overcoating intervals:

20°C: min 8 h, max 48 h after the application of **SILICONE TIECOAT 27450**

10°C: min 16 h, max 48 h after the application of **SILICONE TIECOAT 27450**

In case the recoating interval is exceeded, a new coat of Tiecoat must be applied accordingly.

• SECOND COAT OF **SILICONE**

Apply at least 100 micron wet.

Overcoating intervals:

10 - 20°C: min 16 h.

The boat can be launched 24 hours after the last coat has been applied.
Maximum launch time is 1 month.

High speed motor boats (min 20 knots)

SILICONE is self-cleaning on high speed motor boats.

Slow speed boats - sailboats

The coating can be cleaned as frequently as desired/required, thus maintaining a perfectly clean surface with extremely low friction.

SILICONE is easy to clean. You can use one of two below options:

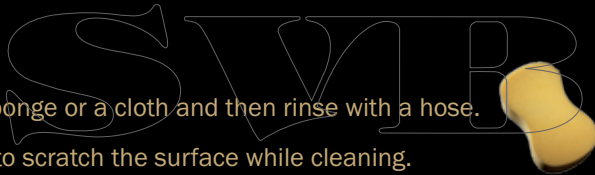
OPTION 1

Use a high pressure, fresh water wash to clean the surface.

OPTION 2

Use a dense sponge or a cloth and then rinse with a hose.

Be careful not to scratch the surface while cleaning.



IMPORTANT: DO NOT USE a hard brush, bristles or similar.

Maintenance of **SILICONE** is easy and simple. Maintenance cost is lower compared to traditional antifouling.

In order to maintain the system, a new layer of topcoat should be applied every year.

If the boat has been on land for a period of more than 1 month, wash the boat with soap (Hempel's Boat Shampoo) and then apply one new coat of **SILICONE** prior to launch.

If the boat stays in the water all year, a new coat every year may not be necessary, but more frequent cleaning may be required.

MAINTENANCE



• **Will I save fuel with SILICONE?**

Yes, due to easy cleaning of the surface, coating can be free from fouling and the hull will have less friction in the water.

• **Can I go faster with SILICONE?**

Yes, the reduced friction of a clean coating will increase speed.

• **Can SILICONE be applied at low temperatures?**

SILICONE can be applied down to 10°C.

• **How sensitive is SILICONE to moisture?**

SILICONE requires a dry surface prior application. Do not apply **SILICONE** tiecoat or **SILICONE** when rain is expected or on a wet substrate.

• **How soon can I launch the boat after applying SILICONE?**

The boat can be launched from 24 hours to maximum 1-month after applying **SILICONE**.

• **Can SILICONE be applied on top of old antifouling?**

No, it is important to:

- remove old antifouling down to the Epoxy Primer or bare substrate.
- apply new coatst of Light Primer before applying the **SILICONE** System.

• **Is it possible to overcoat SILICONE with traditional antifouling?**

SILICONE will have to be removed if you want to convert back to traditional antifouling. Only silicone fouling release will stick to **SILICONE**.

- **At what speed will the self cleaning take effect?**

At faster speeds the self cleaning will be most effective. Even at lower speed self cleaning is possible with constant use.

- **SILICONE is soft. Does it encounter a lot of mechanical damage?**

When scratching with a nail, the silicone may feel mechanically weak, but when the force is applied on a larger area, for instance with a fender, the silicone has a good abrasive resistance. This is primarily because the coating is soft and absorbs the energy.

- **What do I do if my SILICONE get's a scratch?**

It is easy to repair; simply re-build the paint system in the damaged area.



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LOW FRICTION

FOR ALL TYPES OF BOATS



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SILICONE FOULING RELEASE SYSTEM