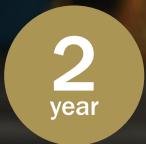


Hempel's Silic One

Our most efficient
antifouling solution

hempeleyacht.com



Fouling
protection



Easy to apply
& maintain



Fuel
saving



Biocide- and
copper-free



Works on
propellers

SILIC ONE - the only biocide-free silicone solution with proven track record.



Available in shades:



Red



Black



Blue

Biocide-free solution 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.

What is a Fouling Release System?

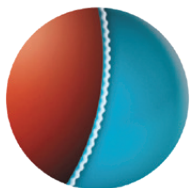
- It is a biocide-free paint/method to prevent fouling
- It is a "non-stick paint"
- Copper-free

What is hydrogel?

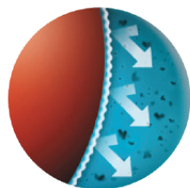
Hydrogel is based on unique, non-reactive polymers that are added to the paint, creating an invisible barrier between the hull surface and the water. Fouling organisms perceive the hull as a liquid and consequently attach to a much lower extent.

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 layer instantly builds up when the hydrogel-forming polymer comes into contact with water.



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



Fouling organisms perceive the hull as a liquid and consequently have difficulty in attaching.

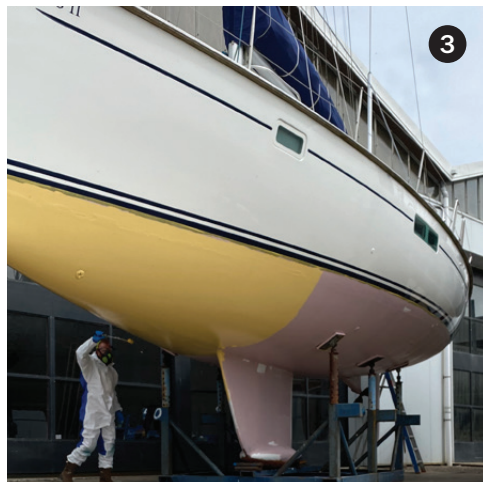
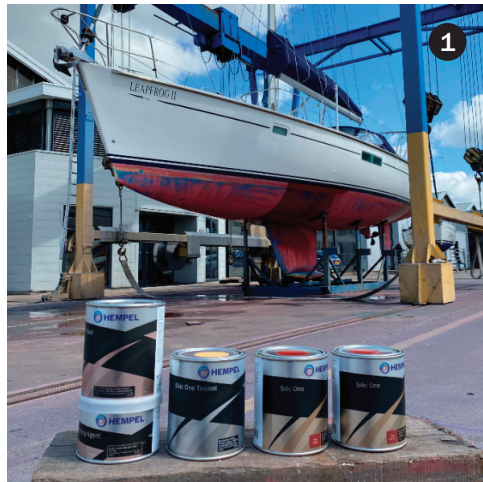


Overcoating old antifouling - easy switch to Silic One system



Hempel's Silic Seal / Conversion Primer is a two-component epoxy primer for an easy conversion from antifouling to Silic One.

4 easy steps:



Surface preparation

Identify the condition of the antifouling currently on your boat. Use a metal scraper to determine whether the aged antifouling adheres sufficiently. In case of bad adhesion, remove all loose/brittle layers. Abrade with wet abrasive paper. Rinse carefully with freshwater and allow the surface to dry.

Application

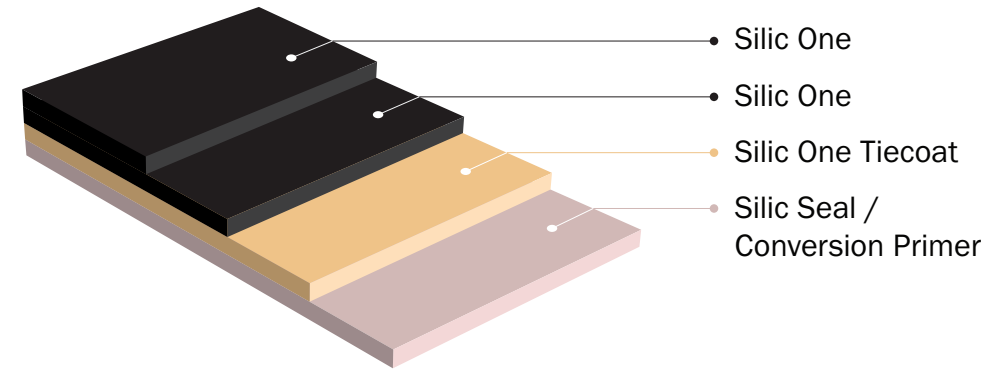
Mix the two components of Hempel's Silic Seal / Conversion Primer thoroughly to an even consistency. The product has a very low viscosity, so any runs and sags should be brushed out immediately.

Thinning is NOT recommended.

Pot life at 20°C: 8 hours

Minimum application temperature is 5°C.

Apply layers of the system as indicated below:



		Can be overcoated after:					
Layers	Hempel's	10°C		20°C		30°C	
		Min	Max	Min	Max	Min	Max
1.	Silic Seal / Conversion Primer	4h	8h	2h	4h	1h	2h
2.	Silic One Tiecoat*	16h	48h	8h	48h	4h	24h
3.	Silic One	16h	No max**	16h	No max**	8h	No max**
4.	Silic One						
To be immersed after final coat		36h	1 month	24h	1 month	24h	1 month

*The Silic One Tiecoat must be applied to full coverage to ensure adhesion.

After 48 hours surface **must be cleaned with a suitable detergent, rinsed with fresh water and allowed to dry before applying the next coat. Overcoating must be carried out as soon as possible after surface has dried.

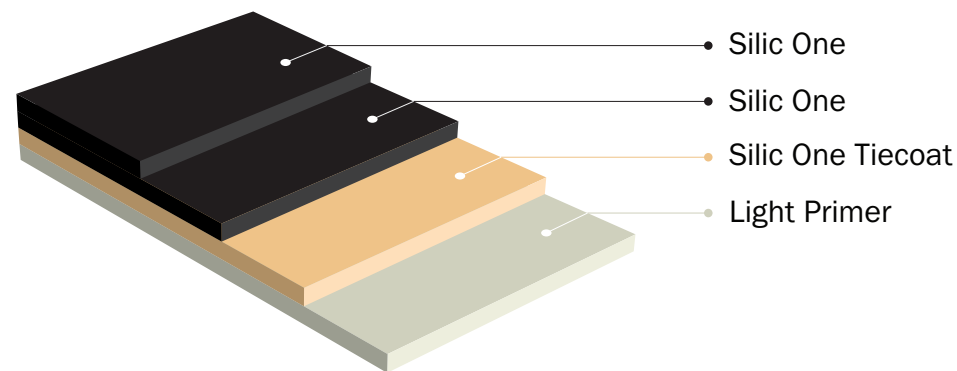
New hull or bare hull with epoxy

Surface preparation

Clean with a suitable detergent and sand with dry abrasive paper (P120). Carefully clean with water and allow the surface to dry.

Application

Apply layers of the system as indicated below:



Can be overcoated after:							
Layers	Hempel's	10°C		20°C		30°C	
		Min	Max	Min	Max	Min	Max
1.	Light Primer	4h	8h	2h	4h	1h	2h
2.	Silic One Tiecoat*	16h	48h	8h	48h	4h	24h
3.	Silic One	16h	No max**	16h	No max**	8h	No max**
4.	Silic One						
To be immersed after final coat		36h	1 month	24h	1 month	24h	1 month

*The Silic One Tiecoat must be applied to full coverage to ensure adhesion.
 After 48 hours surface **must be cleaned with a suitable detergent, rinsed with fresh water and allowed to dry before applying the next coat. Overcoating must be carried out as soon as possible after surface has dried.

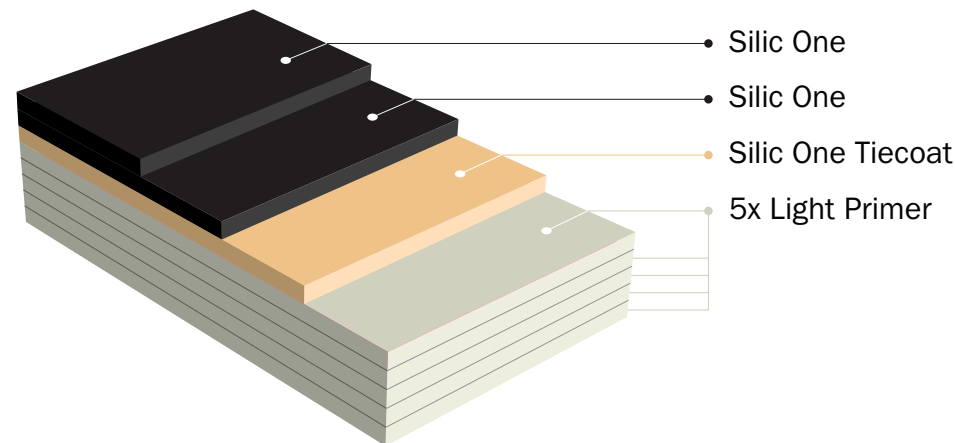
New hull without epoxy

Surface preparation

Clean with a suitable detergent and sand with dry abrasive paper (P120). Carefully clean with water and allow the surface to dry.

Application

Apply layers of the system as indicated below:



Can be overcoated after:							
Layers	Hempel's	10°C		20°C		30°C	
		Min	Max	Min	Max	Min	Max
1.	Light Primer (thinned 20%)	8h	60d	4h	30d	3h	22.5d
2.	Light Primer	8h	60d	4h	30d	3h	22.5d
3.	Light Primer	8h	60d	4h	30d	3h	22.5d
4.	Light Primer	8h	60d	4h	30d	3h	22.5d
5.	Light Primer	4h	8h	2h	4h	1h	2h
6.	Silic One Tiecoat*	16h	48h	8h	48h	4h	24h
7.	Silic One	16h	No max**	16h	No max**	8h	No max**
8.	Silic One						
To be immersed after final coat		36h	1 month	24h	1 month	24h	1 month

*The Silic One Tiecoat must be applied to full coverage to ensure adhesion.
 After 48 hours surface **must be cleaned with a suitable detergent, rinsed with fresh water and allowed to dry before applying the next coat. Overcoating must be carried out as soon as possible after surface has dried.

Silic One for propellers

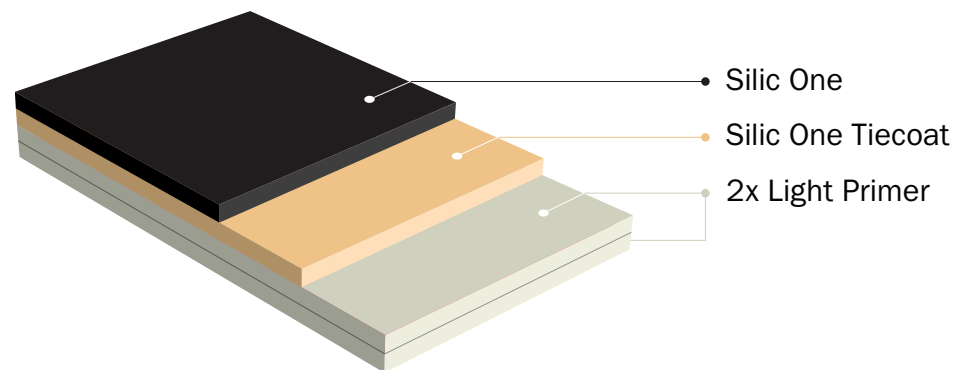
Surface preparation

- If necessary, remove old antifouling first
- Clean with Hempel's Pre-Clean (for aluminium propellers make sure that Hempel's Pre-Clean has been thinned 1:20)
- Create a palpable roughness by abrading with 40 sand paper or other mechanical methods, preferably abrasive blasting. Wash with freshwater and allow to dry, before applying relevant specification. Apply as fast as possible the primer to avoid oxidation.



Application

Apply layers of the system as indicated below:



Can be overcoated after:							
Layers	Hempel's	10°C		20°C		30°C	
		Min	Max	Min	Max	Min	Max
1.	Light Primer (thinned 20%)	8h	60d	4h	30d	3h	22.5d
2.	Light Primer (thinned 5%)	4h	8h	2h	4h	1h	2h
3.	Silic One Tiecoat	16h	48h	8h	48h	4h	24h
4.	Silic One						
To be immersed after final coat		36h	1 month	24h	1 month	24h	1 month

Cleaning

High speed motor boats

Hempel's Silic One is self-cleaning on 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.

Hempel's Silic One is **easy to clean**.

You can use one of two following 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.



Maintenance

Maintenance of Hempel's Silic One is easy and simple. Maintenance cost is lower compared to traditional antifouling. In order to maintain the system, a new layer of Hempel's Silic One should be applied every second year.

The Silic One System performs more effectively if the boat remains in the water. If the boat is used in areas of high environmental conditions, or kept out of the water for an extended period, it may be necessary to apply a new layer of Hempel's Silic One every year.

FAQ

Will I save fuel with Silic One?

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 Silic One?

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

Can Silic One be applied at low temperatures?

Silic One can be applied down to 10°C.

How sensitive is Silic One to moisture?

Silic One requires a dry surface prior to application. Do not apply Silic One Tiecoat or Silic One when rain is expected or on a wet substrate.

How soon can I launch the boat after applying Silic One?

The boat can be launched from 24 hours to maximum 1 month after applying Silic One.

Can Silic One be applied on top of old antifouling?

Yes! With Silic Seal / Conversion Primer you can apply on top of antifouling in good condition (good condition means = if you would normally apply another layer of antifouling – it is OK to apply Silic One system with Silic Seal / Conversion Primer as well).

Is it possible to overcoat Silic One with traditional antifouling?

Silic One will have to be removed if you want to convert to traditional antifouling. Only fouling release coatings will stick to Silic One.

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.

Should I be afraid of too slippery surface when lifting the boat on slings?

No, you should simply secure the lifting straps together and to each other to prevent them spreading apart when lifting.

Silic One 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 Silic One gets a scratch?

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

Will it be a problem if the applied surface is not completely smooth?

No, you will have the same performance even though the paint surface is not complete smooth.

Can Silic One for propeller be applied on all types of propeller materials?

Silic One for propeller can be applied on all types of metals and alloys. Epoxy and fiberglass based composites is also possible. Remember to use primer before applying the Silic One System.

How carefully should the pretreatment of the propeller be done?

You should do a proper cleaning and pretreatment (see application instruction). You should not paint on grease and oil.

How do I know if I get enough paint on the propeller?

You should apply as much paint as possible, but without sagging.

Can I polish the propeller during the season?

No, you should not polish the propeller during the season, you can clean it with a soft sponge instead.

Can Silic One be removed?

Yes. You can use Hempel's Silicone Remover available in 5l cans. Contact your local shop for ordering the product.

Painted with Hempel's Silic One



Aluminium Power boat, Finland



Colnago 35, Croatia



Pershing 72, Italy



Sailing boat, Netherlands



Winner 1010, Netherlands



AWNiemeyer, Germany



Bavaria 39, Denmark



Aronet, Finland

General Application Advice

- Please read and carefully follow all the instructions before painting.
 - Remember to check the shelf life before use.
 - Painting should be avoided if there is a risk of rain!
 - The paint is sensitive to humidity, therefore only open the tin just before use.
 - Hempel's Silic One Tiecoat and Silic One can be used up to 1 hour after opening the tin. A tin that has been opened cannot be stored for later use.
 - It is strongly advised to apply the maximum film thickness without sagging for best performance and adhesion.
 - **For the initial application of Hempel's Silic One, two coats are required, but for next application one coat will be sufficient.**
- Pour the paint into a paint tray and replace lid during application.
 - The boat can be launched 24h-36h after last coat has been applied. Maximum launch time is 1 month.

Key Advice

In case the recoating interval is exceeded simply apply a fresh coat of the previously applied coat.

Tools



Short-haired or felt rollers are ideal for the application of the Silic One system.

If you are searching for the **ONE** that will:

- ✓ keep your boat fouling free
- ✓ save you from re-painting every year
- ✓ save you money
- ✓ save on fuel
- ✓ save the environment



Silic One is The ONE.

The premium antifouling.

10 years of boat owners' trust in Silic One!
Thank you.

hempelyacht.com



Hempel's Silic One

Our most efficient antifouling solution

As a world-leading supplier of trusted coating solutions, Hempel is a global company with strong values, working with customers in the protective, marine, decorative, container and yacht industries. Hempel factories, R&D centres and stock points are established in every region. Across the globe, Hempel's coatings protect surfaces, structures and equipment. They extend asset lifetimes, reduce maintenance costs and make homes and workplaces safer and more colourful. Hempel was founded in Copenhagen, Denmark in 1915. It is proudly owned by the Hempel Foundation, which ensures a solid economic base for the Hempel Group and supports cultural, social, humanitarian and scientific purposes around the world.

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