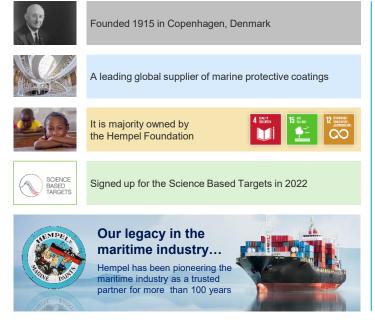


Short introduction





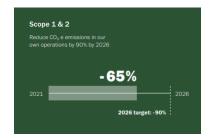
Marine Revenue 709 mEUR 32% Energy Infrastructure 38% Decorative Revenue 653 mEUR



^{*} Numbers as of 31 December 2024.

Reduction of Scope 1 and 2

We are the most ambitious and best performer in industry





Paint Company	Reduction of Scope 1-2 reported in 2024
Hempel	65
Company A	41
Company B	30
Company C	19
Company D	16
Company E	13



Hempaguard, the benchmark fuel-saving hull coating

Hempaguard



Innovative
ActiGuard® technology

5,000+
applications

Trusted

5th generation of the Hempel Silicone Technology



Acknowledged by ABS

Silicone coatings are being verified by ABS, Lloyd's, etc., as one of the best investments for energy efficiency enhancements.



DNV Validated performance

The Hempaguard X7 performance claims have been validated by DNV in 2024



Recommendations from 2023



There is technology available with proven / demonstrated performance to fulfil performance demands on Fouling control solutions for Yachts in Europe.



There is legislation experience on how to do it



We just need to do it



What is new from 2023 to 2025



Biocide free solutions works in North America



More yachts applied



Infinity: Paint refresher



Marine biofouling and the role of biocidal coatings in balancing environmental impacts. 2023

BIOFOULING 2023, VOL. 39, NO. 6, 661-681 https://doi.org/10.1080/08927014.2023.2246906

The future use [of biocides] is not guaranteed due to their bioaccumulation and toxicity concerns to non-target species. (pg. 674)

Until environmentally friendly technologies perform at the level of classic antifouling coatings, their potential toxicity has to be weight against the reduction of GHG emissions and prevention of IAS. Ultimately, biocidal AF coatings should be phased out to avoid loss of biodiversity and costly wastewater treatment. However, currently, their performance and costs are unmatched. The most promising available alternative, which balances the environmental impact with the toxicity of biocides, are FR coatings containing low amount of booster biocides. (pg. 674)

Florian Webera and Naser Esmaeilib

- ^a Department of Materials and Nanotechnology, SINTEF, Oslo, Norway;
- ^b Jotun, Sandefjord, Norway



Not all the Silicones are the same Raft performance after 4 months in Singapore



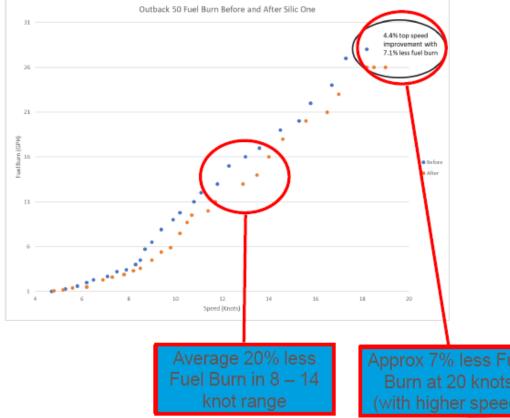


USA

Silic One: Fuel Savings

- Outback 50: great "before and after" data
- Top speed:
 - +4.4% speed
 - -7.1% fuel burn
- 8 14 knot range: 17 20+% lower Fuel Burn





Claim of 5% Fuel Savings = Conservative



Silic One Speed Improvements

- Outback 50: average 5% improvement
- Mainship Pilot 30: "Had no problems reaching a top speed of 24 knots. Previously, even with a clean bottom we were getting about 22."
- Tartan 37: "Just short of 1 knot speed improvement. Boat handling much better!"
- Fountain 47: "With Silic One we increased top speed of our boat from 89 knots to 94 knots"
- Nimbus 405C: "Cruising speed of our Nimbus 405C increased by 3 knots."
- Overmarine factory (Mangusta): "By applying Hempel's Silicone systems, we gain 3-4 knots of speed"







Hempel Silic One.

A 105' Mangusta just hauled after 9 months in Florida waters — and the results speak for themselves.





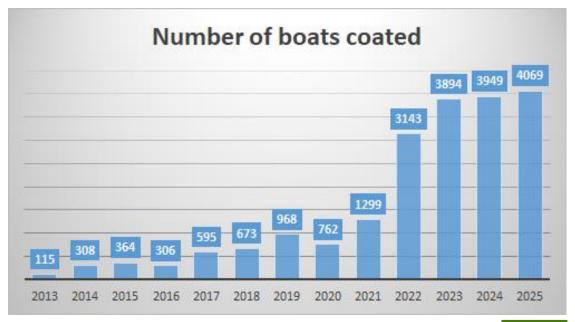






Yacht biocide free references

More than 20,000 applications in the last 13 years



Types of waters

- Mediterranean
- Atlantic
- Baltic Sea
- North Sea
- Brackish waters
- Pacific
- Gulf of Mexico
- Gulf of California





Infinity is a "recharger" for Hempel's Silic One system



Concept

- Hydrogels may leave the silicone coating or lose effect over time
- Can we enrich the silicone with fresh hydrogel?
- Yes with a Water borne hydrogel containing varnish
- "Varnish on/Varnish off"—> replenished silicone





3 easy steps



Apply









Dry (24h)





Wash off









Sustainability assessment: Full system life cycle 3 years duration

Sustainability gains Infinity compared with a standard biocide free paint solution:



42% less paint and waste



50% less VOC emissions



47% less total carbon footprint



Silicon hydrogel (mainly use in contact lenses)

- No hazardous
- No PFAS

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

Acute Tox. 4 H302 Harmful if swallowed.
Acute Tox. 4 H332 Harmful if inhaled.

Eye Dam. 1 H318 Causes serious eye damage.
Aquatic Acute 1 H400 Very toxic to aquatic life.

Aquatic Chronic 1 H410 Very toxic to aquatic life with long lasting effects.

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008:

The substance is classified and labelled according to the GB CLP regulation.

Hazard pictograms:



Cuprous oxide MSDS

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

The substance has been assessed and/or tested for its physical, health and environmental hazards and the following classification applies.

Classification according to Regulation (EC) No 1272/2008 as amended

This substance does not meet the criteria for classification according to Regulation (EC) 1272/2008 as amended.

Hazard summary Not available.

2.2. Label elements

Label according to Regulation (EC) No. 1272/2008 as amended

Hazard pictograms None.
Signal word None.

Hazard statements The substance does not meet the criteria for classification.

Silicon hydrogel MSDS

Conclusions from 2025



There is technology available with proven / demonstrated performance to fulfil performance demands on Fouling control solutions for Yachts in Europe and USA.



There is legislation experience on how to do it



We just need to do it





Thank you.