

# Fouling control portfolio

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# Fouling control portfolio

In an ideal world, there should be nothing on your hull but water. Unfortunately, the marine environment is full of harmful organisms that create drag and corrosion, costing you time and money.

Hempel has developed a broad range of fouling control products offering exceptional clean hull performance for up to 90 months. Our products deliver fuel savings of up to 21% compared to the market average — translating into significant cost reductions and lower emissions. Backed by real-world results, Hempel’s solutions help you extend maintenance intervals, reduce downtime, and meet your sustainability targets.

Explore our fouling control portfolio and let us guide you to the best solution for your operations.

| Speed loss |                            |                        |                        |
|------------|----------------------------|------------------------|------------------------|
| 0.9%       | Hempaguard Ultima<br>(160) |                        |                        |
| 1.1%       |                            |                        |                        |
| 1.2%       | Hempaguard X7<br>(120)     | Hempaguard NB<br>(120) | Hempaguard X8<br>(120) |
| 1.4%       |                            |                        |                        |
| 1.5%       | Sonic<br>(45)              | Hempablue<br>(60)      |                        |
| 2%         | Globic 9500<br>(45)        |                        |                        |
| 2.5%       | Sonic E<br>(33)            |                        |                        |
| 3%         | Globic 9000<br>(33)        |                        |                        |
| 3.5%       | Globic 8000<br>(30)        |                        |                        |
| 4.0%       |                            |                        |                        |

|                                  |
|----------------------------------|
| Silicones* (idle day guarantee)  |
| Antifouling (idle day guarantee) |

\*Silicones will provide an additional 6% fuel savings coming from Out of dock

① Use antifoulings safely. Always read the label and product information before use.

# Our silicones

With more than five decades of silicone excellence and the widest silicone portfolio in the industry, our solutions give you the flexibility to choose the best solution for your vessel and operations.

## Hempaguard X8

Perfect for slow steaming and tropical waters

|            |      |              |     |           |     |
|------------|------|--------------|-----|-----------|-----|
| SPEED LOSS | 1.2% | FUEL SAVINGS | 20% | IDLE DAYS | 120 |
|------------|------|--------------|-----|-----------|-----|

|           |               |
|-----------|---------------|
| TOPCOAT 2 | Hempaguard X8 |
|-----------|---------------|

|           |               |
|-----------|---------------|
| TOPCOAT 1 | Hempaguard X8 |
|-----------|---------------|

Hempaguard X8 is an advanced fouling defence coating utilising advanced hydrogel silicone to enhance the antifouling barrier, extend fouling-free periods, and reduce hull roughness.

## Hempaguard NB

Silicone coating solution for newbuild

|            |      |              |     |           |     |
|------------|------|--------------|-----|-----------|-----|
| SPEED LOSS | 1.2% | FUEL SAVINGS | 20% | IDLE DAYS | 120 |
|------------|------|--------------|-----|-----------|-----|

|           |               |
|-----------|---------------|
| TOPCOAT 2 | Hempaguard NB |
|-----------|---------------|

|           |                  |
|-----------|------------------|
| TOPCOAT 1 | Hempaguard NB/X7 |
|-----------|------------------|

Hempaguard NB is an advanced fouling defence coating designed for marine new construction.

## Hempaguard Ultima

Our ultimate performance silicone coating system

|            |      |              |     |           |     |
|------------|------|--------------|-----|-----------|-----|
| SPEED LOSS | 0.9% | FUEL SAVINGS | 21% | IDLE DAYS | 160 |
|------------|------|--------------|-----|-----------|-----|

|           |                                                                                                     |
|-----------|-----------------------------------------------------------------------------------------------------|
| TOPCOAT 2 | Hempaguard XL  |
|-----------|-----------------------------------------------------------------------------------------------------|

|           |            |
|-----------|------------|
| TOPCOAT 1 | Hempaguard |
|-----------|------------|

Hempaguard **Ultima** is the new, innovative and patented high-performance silicone system from Hempel, build on the trusted Hempaguard technology with more than 10 years of trusted performance and more than 4,000 applications

## Hempaguard X7

The benchmark silicone coating system

|            |      |              |     |           |     |
|------------|------|--------------|-----|-----------|-----|
| SPEED LOSS | 1.2% | FUEL SAVINGS | 20% | IDLE DAYS | 120 |
|------------|------|--------------|-----|-----------|-----|

|           |               |
|-----------|---------------|
| TOPCOAT 2 | Hempaguard X7 |
|-----------|---------------|

|           |               |
|-----------|---------------|
| TOPCOAT 1 | Hempaguard X7 |
|-----------|---------------|

Since the launch in 2013, Hempaguard X7 has been the standard-setting silicone coating with more than 4,000 applications.

## Hempablue

The biocide free silicone coating

|            |      |              |     |           |    |
|------------|------|--------------|-----|-----------|----|
| SPEED LOSS | 1.5% | FUEL SAVINGS | 19% | IDLE DAYS | 60 |
|------------|------|--------------|-----|-----------|----|

|           |                                                                                                 |
|-----------|-------------------------------------------------------------------------------------------------|
| TOPCOAT 2 | Hempablue  |
|-----------|-------------------------------------------------------------------------------------------------|

|           |                                                                                                 |
|-----------|-------------------------------------------------------------------------------------------------|
| TOPCOAT 1 | Hempablue  |
|-----------|-------------------------------------------------------------------------------------------------|

Hempablue is the fourth generation fouling release based on silicone hydrogel. Hempablue is biocide free, two component and high-volume solids.

# Our antifoulings

As the leading choice after our silicones, our range of antifoulings guarantees a solution suitable for every type of vessel and trading pattern.

## Silyl acrylate-based solutions

### Sonic

Our most premium antifouling solution leading choice after silicones

|            |      |              |       |           |    |
|------------|------|--------------|-------|-----------|----|
| SPEED LOSS | 1.5% | FUEL SAVINGS | 13.2% | IDLE DAYS | 45 |
|------------|------|--------------|-------|-----------|----|

|           |       |
|-----------|-------|
| TOPCOAT 2 | Sonic |
|-----------|-------|

|           |       |
|-----------|-------|
| TOPCOAT 1 | Sonic |
|-----------|-------|

Sonic comes to the Hempel assortment to revolutionise the premium tier of conventional antifoulings. Sonic is the result of more than 10 years of intense research to optimise the coating mechanism.

### Sonic E

Premium SPC based on silyl acrylate technology and smart biocide package

|            |      |              |       |           |    |
|------------|------|--------------|-------|-----------|----|
| SPEED LOSS | 2.5% | FUEL SAVINGS | 10,2% | IDLE DAYS | 33 |
|------------|------|--------------|-------|-----------|----|

|           |         |
|-----------|---------|
| TOPCOAT 2 | Sonic E |
|-----------|---------|

|           |         |
|-----------|---------|
| TOPCOAT 1 | Sonic E |
|-----------|---------|

Sonic E is the silyl acrylate-based SPC antifouling coating enhanced with microfiber reinforcement. It delivers long-lasting antifouling performance with controlled polishing. Can be combined with Sonic in the specification.

## Nanoacrylate-based solutions

### Globic 9500

Premium fouling protection tailored for slow steaming conditions

|            |    |              |       |           |    |
|------------|----|--------------|-------|-----------|----|
| SPEED LOSS | 2% | FUEL SAVINGS | 11.7% | IDLE DAYS | 45 |
|------------|----|--------------|-------|-----------|----|

|           |             |
|-----------|-------------|
| TOPCOAT 2 | Globic 9500 |
|-----------|-------------|

|           |             |
|-----------|-------------|
| TOPCOAT 1 | Globic 9500 |
|-----------|-------------|

Globic 9500 redefines antifouling with cutting-edge Nano Acrylate Technology, microfiber strength, and a Smart Biocide Package. Designed for lasting protection, it delivers top-tier performance from drydock to drydock.

### Globic 9000

Our first nanoacrylate based solution. premium SPC antifouling with instant effect on contact with water for optimal fouling protection

|            |    |              |      |           |    |
|------------|----|--------------|------|-----------|----|
| SPEED LOSS | 3% | FUEL SAVINGS | 8.7% | IDLE DAYS | 33 |
|------------|----|--------------|------|-----------|----|

|           |             |
|-----------|-------------|
| TOPCOAT 2 | Globic 9000 |
|-----------|-------------|

|           |             |
|-----------|-------------|
| TOPCOAT 1 | Globic 9000 |
|-----------|-------------|

Globic 9000 is a premium SPC antifouling coating featuring Hempel's Nano Acrylate Technology and microfiber reinforcement. It activates immediately upon immersion, with a balanced biocide package ensuring consistent protection throughout the service period.

### Globic 8000

Top tier, high solids SPC antifouling based on Nano Acrylate Technology (NAT) with tripe biocide package

|            |      |              |      |           |    |
|------------|------|--------------|------|-----------|----|
| SPEED LOSS | 3.5% | FUEL SAVINGS | 7.2% | IDLE DAYS | 30 |
|------------|------|--------------|------|-----------|----|

|           |             |
|-----------|-------------|
| TOPCOAT 2 | Globic 8000 |
|-----------|-------------|

|           |             |
|-----------|-------------|
| TOPCOAT 1 | Globic 8000 |
|-----------|-------------|

Globic 8000 offers a smart balance of protection and value. With precision polishing, triple-biocide power, and microfiber-reinforced strength, it delivers immediate, long-lasting antifouling performance and consistent durability.

As a world-leading supplier of trusted coating solutions, Hempel is a global company with strong values, working with customers in the decorative, marine, infrastructure and energy industries. Hempel factories, R&D centres and stock points are established in every region.

Across the globe, Hempel's paints and coatings protect and beautify buildings, infrastructure and other assets, and play an essential role in our customers' businesses. They help minimise maintenance costs, improve aesthetics and increase energy efficiency.

We are guided by our purpose - Make our world last longer, beautifully - which is our shared call to action: to protect what matters, enhanced by colour and craftsmanship.

Hempel was founded in Copenhagen, Denmark in 1915. It is majority 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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**Disclaimer:** Any claim arising from the updated performance guarantee for Hempel coating products shall be subjected to the terms and conditions under the separately executed Performance Guarantee Contract.