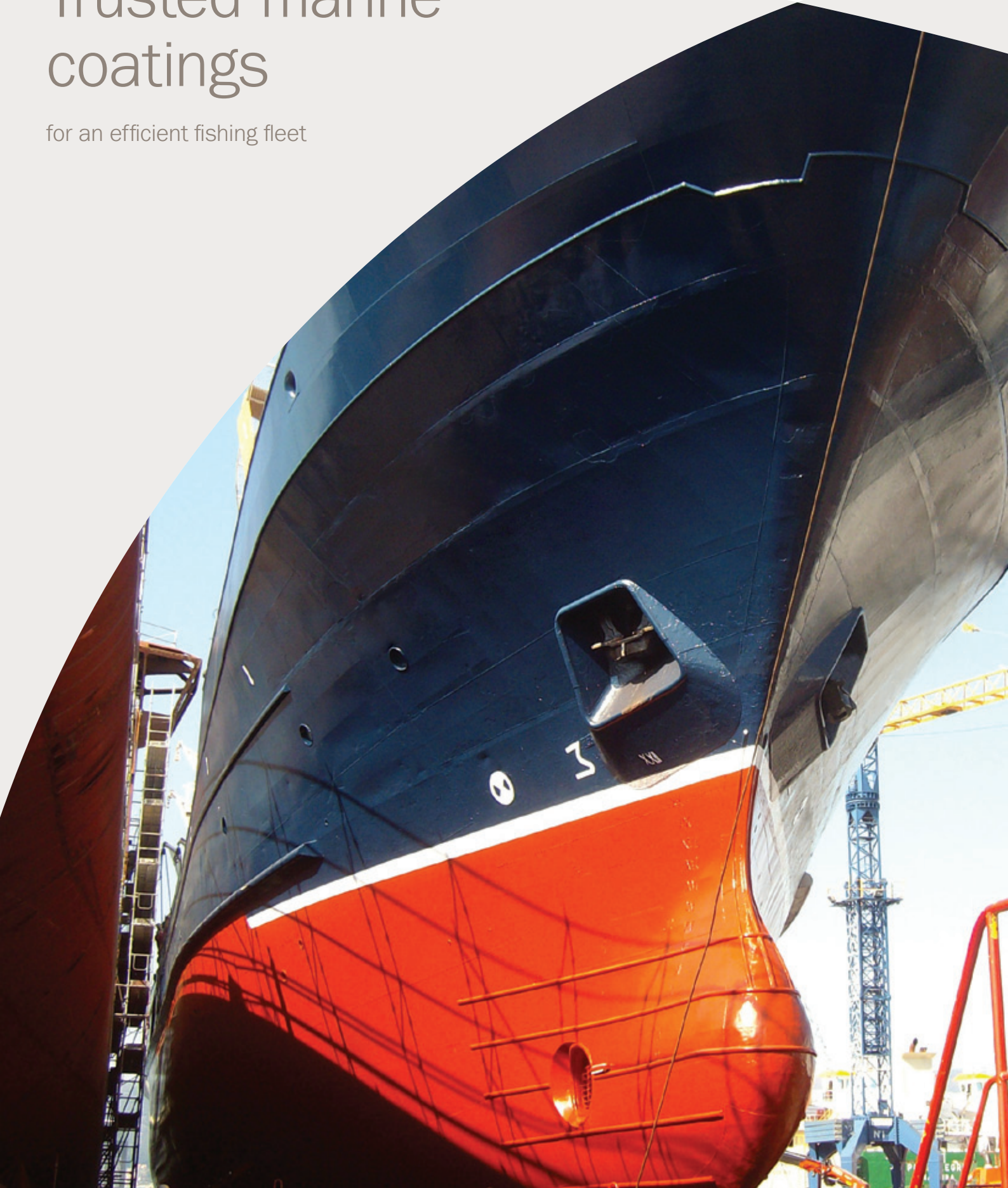


# Trusted marine coatings

for an efficient fishing fleet







# World-leading coatings for improved efficiency

Offering a full range of proven coatings and technical service for fishing vessels, Hempel helps you reduce fuel bills, extend maintenance cycles and cut drydock expenses.

Hempel has been making coatings for ships and boats since 1915, and today we are one of the marine industry's most trusted coatings suppliers. Whether you need coatings for newbuilding, maintenance or sea stock, we can help reduce your operating costs and ensure your vessels stay in prime condition for longer, from the underwater hull to the topsides and cargo tanks.

At Hempel, we see ourselves as guardians of your most valuable assets – your fishing vessels – and we pride ourselves on providing advice, support and products that you can depend on. It's why we exist and why we're the partner of choice for fishing vessel owners worldwide.

## Turning R&D to your advantage

Our global R&D network is committed to developing technology that adds real value to your business, and we focus on producing coatings that improve your operational efficiency and reduce maintenance costs.

It's also known that every vessel is different, so our local R&D teams tailor each solution to your specific needs to ensure you get the perfect coating system for your vessel, whether its a fuel-saving antifouling hull coating or quick-drying coating for your cargo holds.

## Trusted technical service

As an experienced coatings supplier, we understand that a coating system is much more than just a product, and we work closely with you to ensure your coatings are applied as efficiently as possible and will perform as promised.

Our local FROSIO/NACE-certified coating advisors are always on-hand to assist at any stage of your coating project, from initial specifications through to application and maintenance.



# Specialist coating solutions for fishing vessels

**From the hull and decks to the cargo holds and ballast tanks, fishing vessels need specialist coating solutions. Our coatings protect your vessel from fouling, corrosion and abrasion to ensure you benefit from lower operating costs.**

From fouling-aggressive tropical waters to the freezing expanses of the North Sea, fishing vessels are exposed to some of the harshest conditions on the planet. They need coating solutions that can protect them from these conditions, and the abrasion and harsh impacts that come with the job.

#### **Increasing fleet efficiency**

Like all vessels, fishing vessels are subject to fouling. As these organisms build-up on the hull, more fuel is needed to drive the vessel through the water, which increases fuel consumption and associated emissions, and drives up your operating costs.

Whatever your vessel type, trading patterns and steaming speeds, all our antifouling hull coatings are designed to reduce your fuel consumption so you get a fast return on investment and an improved bottom line.

#### **Faster application for lower costs**

We supply a complete range of coatings for maintenance and newbuilds, from universal epoxies to specialist coatings for brine tanks.

All our coatings are designed for easy application and long-term performance, and our quick-drying coatings ensure your vessels spend more time at sea and less time in drydock.





# Reducing fuel costs without limiting fleet flexibility

## The perfect hull coating

With the most comprehensive assortment of antifouling coatings on the market, we can supply the ideal system for your hull to ensure you benefit from lower fuel bills and higher fleet efficiency across the entire docking interval. Here are a few of our hull coating solutions for fishing vessels.

## Hempaguard® X5 and X7

The only technology to combine silicone-hydrogel and the controlled release of biocide in a single coat, our award-winning Hempaguard fouling defence coating can deliver up to 6 per cent fuel savings compared to best-in-class antifoulings over the entire service interval, even if your vessel changes trading patterns and steaming speeds or is idle for extended periods of up to 120 days. The result is lower operating costs and the ultimate in fleet flexibility for docking intervals up to 90 months.

## Hempasil X3+

A completely biocide-free hull coating based on silicone hydrogel, Hempasil X3+ reduces fuel consumption and associated emissions by an average of 5 per cent. Hempasil X3+ can be applied to any type of fishing vessel for docking intervals up to 90 months, and is easy to apply on top of most other coatings.

## Globic NCT

An enhanced antifouling solution for docking intervals up to 60 months, Globic NCT combines tried and tested nano acrylate technology with impressive value for money, and offers fuel savings of up to 4 per cent in both warm and cold waters.

## Oceanic+

A cost-effective antifouling solution with unmatched mechanical strength, Oceanic+ is built on proven zinc carboxylate technology and includes microfibre reinforcement to improve durability. It can be used by vessels operating in different trading waters and can be specified for docking intervals up to 36 months.

## Olympic+

A cost-effective rosin-based coating, Olympic+ has a long track record and has proven to deliver good fuel-saving performance for docking intervals up to 36 months. It can be specified for almost any trading water, vessel type and steaming speed.

## Find out more

To find the ideal hull coating for your vessel, check out [hempel.com](http://hempel.com) or speak to your local Hempel representative.





# Reducing hull damage for a longer lasting vessel

When fishing company Polar Seafood needed a robust coating to reduce hull damage and associated maintenance costs, it turned to Hempadur Multi-Strength 45750 with excellent results.

## The challenge

Fishing in icy waters exposes a vessel's hull to severe impact and abrasion. Polar Seafood was looking for an abrasion resistant hull coating that would protect its vessels from corrosion and abrasion in order to reduce the need for maintenance and increase its vessels' time in service.

## The results

We specified Hempadur Multi-Strength 45750, a highly abrasion resistant coating that protects the hull against corrosion and the severe damage caused by fendering, anchor chains and other impacts.

Our Technical Service team worked closely with Polar Seafood throughout application, and the resulting coating system will reduce long-term maintenance costs for the company.

Customer:	Based in Denmark, Polar Seafood has been fishing in the area around Iceland and Greenland since 1984. The company is dedicated to fishing with the utmost respect for the environment and the vessels are fitted with the latest fishing and conservation technology.
Coating:	Hempadur Multi-Strength 45750
Vessels:	Polar Qaasiut

Specialist epoxy coatings for fast application and long-term performance.

With a complete range of coatings for newbuilds and maintenance, we ensure you get a long-lasting solution, extended maintenance cycles and reduced drydock expenses. Here are a few of our epoxy coating solutions for fishing vessels.

## Find out more

To find the ideal coating for your vessel, check out [hempel.com](http://hempel.com) or speak to your local Hempel representative.

## Epoxy coatings

### Hempadur Quattro 17634

A high-performance PSPC-compliant coating for water ballast tanks, Hempadur Quattro 17634 is a universal epoxy that offers proven protection against seawater, oils and abrasion. The coating can also be used as a universal primer on almost any vessel area that needs increased durability.

### Hempadur Multi-Strength 45750

A self-priming two-component coating for vessel areas that are subject to severe abrasion, Hempadur Multi-Strength 45750 ensures excellent resistance to abrasion and corrosion, including corrosively aggressive chemicals. It can be applied in temperatures from -10°C to 40°C and offers short drying times for a fast return to service.

### Hempadur Easy 47700

When our customers told us that they wanted a reliable and easy-to-apply universal coating that could be applied in all climatic conditions, we developed the pure epoxy primer Hempadur Easy 47700. Suitable for almost all vessel surfaces, Hempadur Easy 47700 requires minimal surface preparation, can be applied in a wide range of temperatures and offers fast drying and re-coating times for quick application.

### Hempadur 35530 and 35560

Fully certified solvent-free coatings for potable water tanks, Hempadur 35530 and 35560 will ensure your tanks are full of delicious drinking water and nothing else. They also give brine tanks a long-lasting coating that will protect them from corrosion for years to come.





# Example of fishing vessel specifications

	Drydock Maintenance	Alternative systems or Newbuilding
<b>Bottom</b>	1 x Hempadur Quattro 17634 or 1 x Hempadur Easy 47700 1 x Hempadur 47182 or Hempadur 45182 1 x Antifouling Olympic+ / Oceanic+ / Globic	2 x Hempadur Quattro XO 1 x Hempasil Nexus 27310 1 x Hempaguard X7 89900
<b>Topsides</b>	1 x Hempadur Quattro 17634 or 1 x Hempadur Easy 47700 1 x Hempthane Topcoat 55210	2 x Hempadur Quattro XO 1 x Hempthane Topcoat 55210
<b>Deckhouses / A beams / Equipment on deck, etc.</b>	1 x Hempadur Quattro 17634 or 1 x Hempadur Easy 47700 1 x Hempthane Topcoat 55210	2 x Hempadur Quattro XO 1 x Hempthane Topcoat 55210
<b>Superstructure / Aluminium</b>	1 x Hempadur 15553 1 x Hempadur Quattro 17634 or 1 x Hempadur Easy 47700 1 x Hempthane Topcoat 55210	1 x Hempadur 15553 2 x Hempadur Quattro XO 1 x Hempthane Topcoat 55210
<b>Outside deck areas</b>	1 x Hempadur Quattro 17634 or 1 x Hempadur Easy 47700 1 x Hempthane Topcoat 55210	2 x Hempadur Quattro XO 1 x Hempthane Topcoat 55210
<b>Stores / Engine rooms</b>	1 x Hempel's Speed Dry Alkyd 43140 1 x Hempalin 52140	1 x Hempadur 15570 2 x Hempadur Quattro XO 1 x Hempthane Topcoat 55210
<b>RSW tanks</b>	3 x Hempadur 85671 or 2 x Hempadur Multi-Strength 35560	3 x Hempadur 85671 or 2 x Hempadur Multi-Strength 35560
<b>Fresh water tanks</b>	2 x Hempadur 35560	2 x Hempadur 35560
<b>Ballast tanks / Anti-roll tanks / Wash water tanks</b>	2 x Hempadur Quattro 17634	2 x Hempadur Quattro XO
<b>Factory side &amp; ceilings</b>	1 x Hempadur Quattro 17634 or 1 x Hempadur Easy 47700 1 x Hempthane Topcoat 55210	1 x Hempadur 15570 2 x Hempadur Quattro XO 1 x Hempthane Topcoat 55210
<b>Factory deck</b>	1 x Hempadur Quattro 17634 or 1 x Hempadur Easy 47700	1 x Hempadur 15570 2 x Hempadur Quattro XO
<b>Pump / Manifold / RSW pump room</b>	1 x Hempadur Quattro 17634 or 1 x Hempadur Easy 47700 1 x Hempthane Topcoat 55210	1 x Hempadur 15570 2 x Hempadur Quattro XO 1 x Hempthane Topcoat 55210



# Trusted marine coatings

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Since 1915 Hempel has been a world-leading coatings specialist, providing protection and inspiration to the world around us. Today we have over 5,500 people in 80 countries delivering trusted solutions in the protective, decorative, marine, container, industrial and yacht markets. This includes many recognised brands like Crown Paints, Schaeplman and Jones-Blair.

Hempel is proudly owned by the Hempel Foundation, which supports cultural, humanitarian and scientific causes across the world.

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