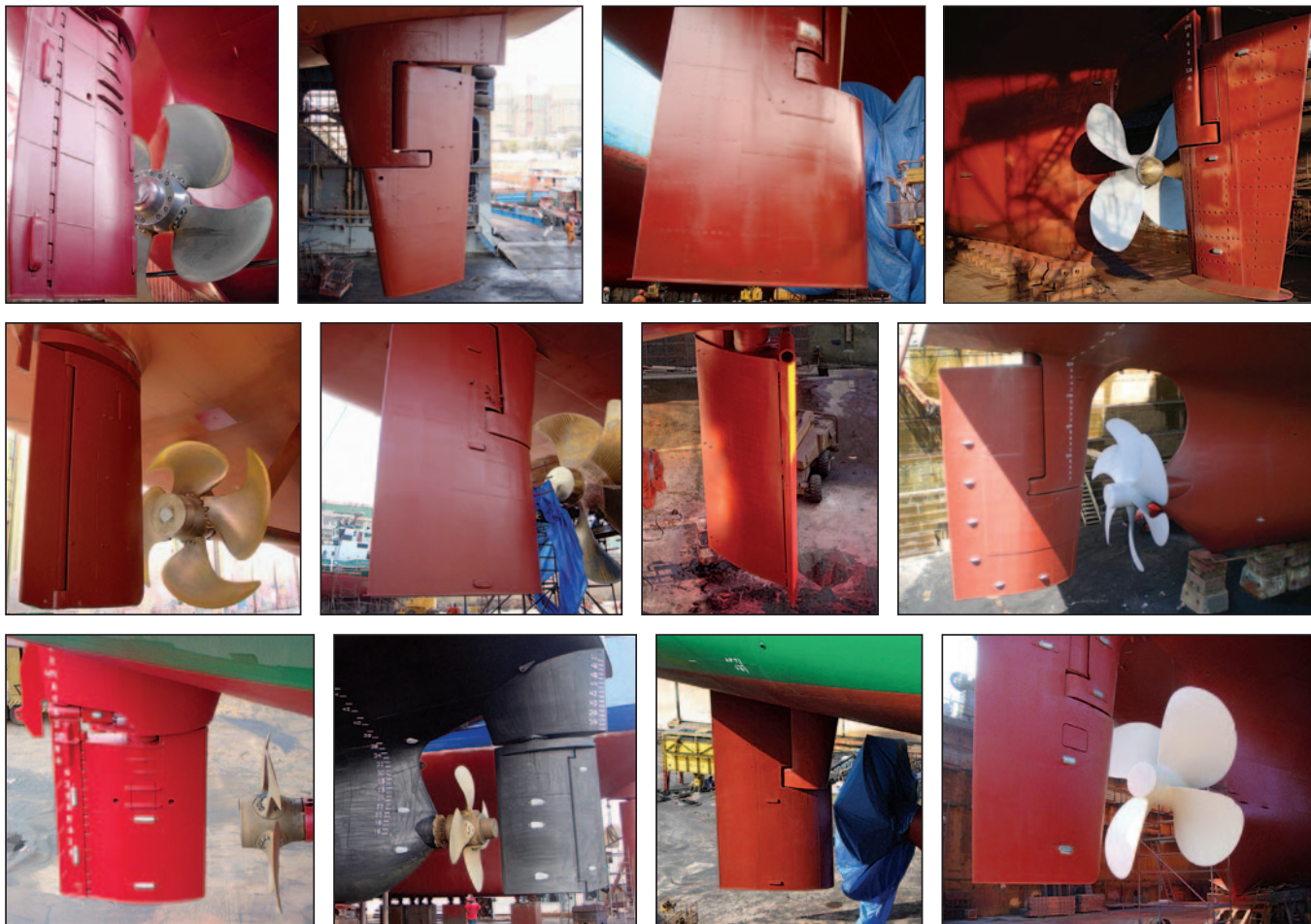




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LASTING PROTECTION



Ecoshield gives a very thorough and lasting defense against cavitation and corrosion damage for a ship hull's entire service life.

The coating equally provides the rudder with an impenetrable protective layer while its flexibility enables absorption of the forces that are produced by cavitation. This prevents the damage normally caused

by this phenomenon.

Without proper protection against cavitation and the resulting erosion and corrosion damage, the financial consequences can be severe.

By removing the existing paint layers and applying Ecoshield on the rudder we can break the never ending cycle of painting, suffering damage, having

to perform extensive repairs in dry-dock followed by a full repainting, again and again.

With an Ecoshield application no full repaint will be needed during drydocking. Ecoshield is guaranteed for ten years. At the most, minor touch-ups will be required.

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ECOSHIELD®
ULTIMATE PROTECTION 

Ecospeed protection for the hold of a Zeeland oyster cutter

The renowned Zeeland oysters

Pols-Bom, a certified organic oyster cultivation company operating in Zeeland, in The Netherlands has been using Ecospeed for long-lasting, non-toxic protection of the cargo hold of their cutter, *YE 48 Op Hoop van Zegen*. The coating has held up extremely well for 15 years without need of repainting, requiring only minor touch-ups every few years.

Founded in 1870, Pols-Bom is based in Yerseke in the southwest of The Netherlands, along with some 15 other oyster farmers. Pols-Bom was one of the first to lease oyster fields in the Eastern Scheldt (Oosterschelde) and in Lake Grevelingen. The trade has been passed down from generation to generation since the company was founded. Oyster



The YE 48 Op Hoop van Zegen at her mooring in Yerseke is key to the operations of Pols-Bom oyster cultivation company.

cultivation is a highly skilled activity and the experience and knowledge built up within the Pols family over the generations makes it possible for the company to deliver a

very superior product today. Mr. Jacques Pols, the current director of Pols-Bom, is the fifth generation to carry on the family tradition.



Zeeland oyster cultivation is a skill and craft that has been passed down from generation to generation since the early 1800s.



Pols-Blom oyster cultivation and processing is certified 100% organic.

Certified 100% organic

A key distinction of Pols-Bom is that their oysters are certified 100% organic by Skal who monitor organic products in The Netherlands, from cultivation through processing. The company goes to great lengths not only to ensure that the oysters they bring to market are of the highest quality, but also that they carry out their cultivating and processing activities with maximum care for and minimum impact on the environment.

Two types of oysters are cultivated in Zeeland: the Zeeland flat oyster and the larger creuse or Pacific oyster. The flat oysters, which are native to the area, are smaller and have a higher value. These Zeeland flat oysters are mostly cultivated in Grevelingen.

The YE 48 Op Hoop van Zegen

Key to the Pols-Bom oyster cultivation activities is their oyster cutter, YE 48 Op Hoop van Zegen which is used to transport and harvest the oysters. And central to this oyster cutter is the hold where the oysters are deposited and kept. The lower part of the hold is unpainted stainless steel. The upper part of the hold is steel

and needs to be protected from corrosion and from the abrasion of tons and tons of oysters being loaded and unloaded.

Ecospeed – ideal protection for the hold

In 2007, Ecospeed was recommended to Mr. Jacques Pols as the ideal coating for the upper part of the YE 48's hold. Ecospeed was applied in two coats to a dry film thickness (DFT) of 1000 µm or 40 mils. The boat has been in constant use since then and the original coating has not needed to be replaced. In 2013 and again in 2022, Mr. Pols ordered very small quantities of Ecospeed to touch up areas where there was

some mechanical damage, but otherwise the coating is protecting the steel as well as it was when first applied. It is in extraordinarily good condition, as shown below. "I am a very happy customer," says Mr. Pols.

From a protection point of view, Ecospeed is second to none. Although it is best known as a hard, non-toxic exterior hull coating, it also has DNV's highest classification for protecting the inside of tanks, and can also be applied on holds and even decks. In this case, it proved to be the perfect coating for the part of the hold that is not stainless steel, providing permanent protection without risk of contaminating the oysters.

The 100% non-toxic nature of Ecospeed is an important additional benefit. The oysters are in contact with the coating on the sides of the hold so that if it had any toxicity, it could negate the 100% organic certification. ■

Visit our website www.subind.net for more information and additional case studies or contact us at

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Ecospeed on the inside of the hold of the YE 48 has remained in excellent condition for over 15 years requiring only very minor touch-ups during that time.

Ecofix restores corroded running gear to its original condition

Ecofix is a filler product which is used in combination with our award-winning Ecoshield hard coat system. Ecofix is specifically developed to provide ship owners and Original Equipment Manufacturers with a cost-effective solution for the repair of corroded or pitted steel surfaces.

When a rudder or other piece of underwater ship gear has not been properly protected, the surface will become severely pitted and corroded. The steel needs to be restored to its original shape with a smooth surface prior to recoating.

This is where Ecofix comes in. It is a superior, tested and proven filler. Because it uses the same basic resin as Ecoshield, the coating can be applied just one hour after the filler. The bonding and hardness are extraordinary. This is the effective alternative to metal facing or very



Ecofix restores the surface of the rudder back to its original condition.

expensive alternative fillers. Because it is part of the Subsea Industries family, it is fully compatible and homogeneous with our other coating systems.

Ecofix can also be used to fill the slot welds on a newbuild rudder. This creates a perfectly even surface on which Ecoshield can be applied.

Rudders and thruster tunnel repaired and protected from further damage

A good example of the Ecofix benefits is the treatment of the rudder of a LPG tanker in Setubal, Portugal. First Ecofix was applied to restore the surface of the damaged rudder back to its original condition. Next it was coated with Ecoshield. This protects the rudder from ever suffering corrosion and cavitation damage again.

Ecoshield and Ecofix are also suitable for stabilizer fins, thrusters, nozzles and other underwater ship gear which needs special protection from corrosion. Now these items can



Application of Ecofix on corroded rudder.



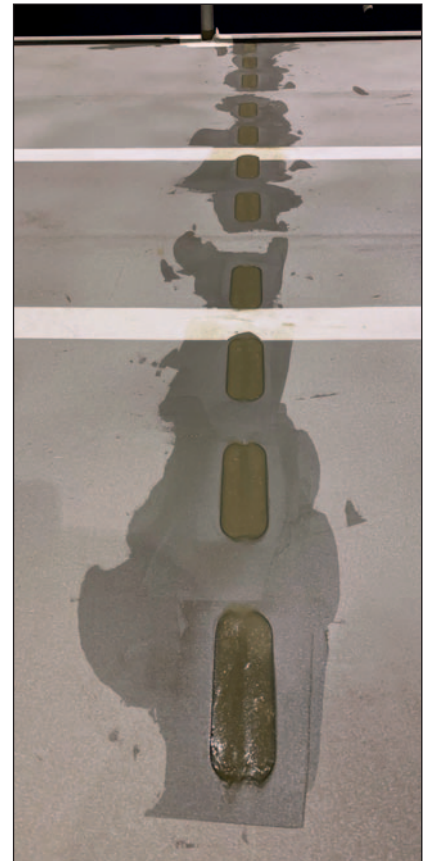
No damage will appear on this rudder from now on.

also be repaired prior to recoating when other, less effective coatings have permitted corrosion and cavitation damage to occur.

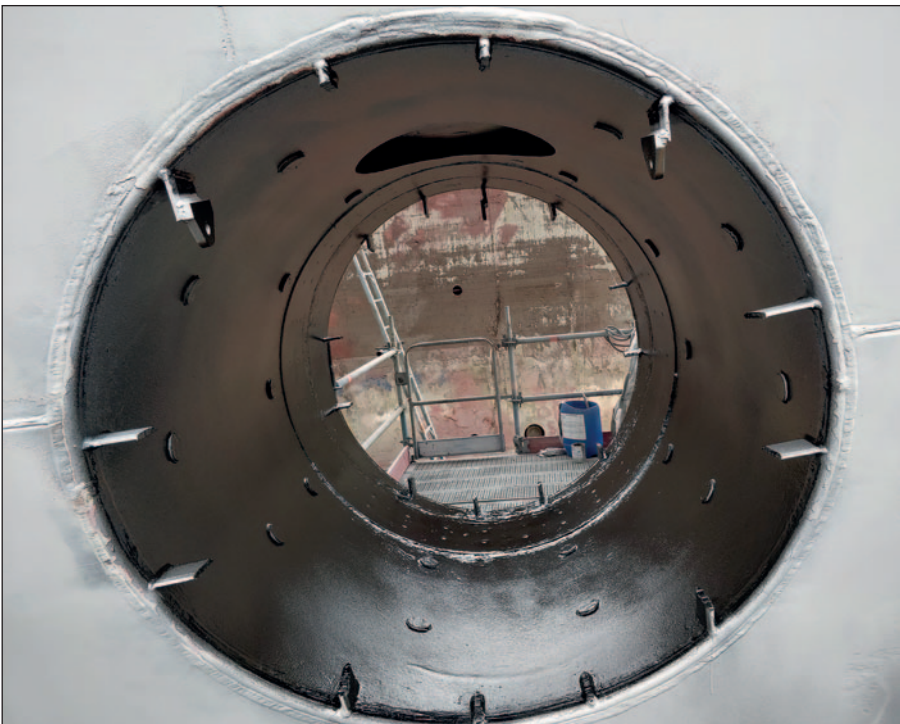
For this reason the corrosion damage on the rudder as well as in the thruster tunnel of a container vessel was repaired in Rotterdam with

Ecofix before Ecoshield was applied.

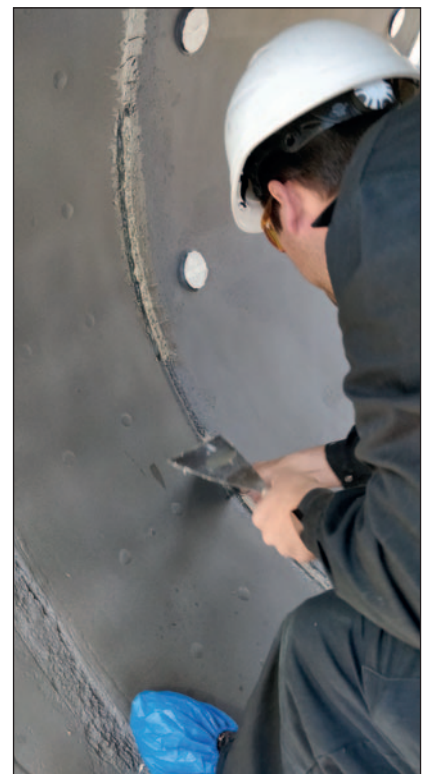
Subsea Industries offers a full package; Ecofix restores the surface of the rudder or other underwater gear and Ecoshield will protect the area from ever suffering corrosion and cavitation damage again. ■



Slot welds filled with Ecofix on a newbuild rudder prior to Ecoshield application.



All damaged running gear can be repaired with Ecofix and protected with Ecoshield.



Application of Ecofix on corroded thruster tunnel.



Subsea Industries is looking for representative agents



To support our continuous growth, we are expanding our worldwide network of Subsea Industries agents. This allows us to reach a much bigger public directly than would otherwise be possible.

Subsea Industries NV was founded in 1983 to take care of the design, development and marketing of an evolving line of underwater hull

and propeller cleaning equipment as well as a line of hard hull coating systems.

The purpose of the Ecospeed range of coatings and cleaning technology is to offer a long-lasting, non-toxic protection for all ships with a system that keeps a hull ultra-smooth and free of fouling for the service life of the vessel with minimal repair and no replacement. Instead of using chemi-

cals to kill and repel marine fouling organisms, Ecospeed uses a hard, impermeable, impenetrable coating along with manual removal of fouling at an early stage.

Contact us if you are interested in joining our network and help us build a strong relationship with our prospects and customers. We look forward to hearing from you.

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SUBSEA

PROTECTION AND PERFORMANCE



Subsea Industries NV, was founded in 1983 specifically to take care of the design, development and marketing of what has become an evolving line of underwater hull and propeller

cleaning equipment as well as the line of hard hull coating systems.

All products produced by Subsea Industries have the same goal in

mind: To keep the underwater part of your vessel in the best possible condition for its entire lifetime at the best possible performance.

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