

# SUBSEA

PROTECTION AND PERFORMANCE

# NEWS

LETTER



Application in 2010



Docking in 2015

**Ecoshield still in excellent condition on rudders after five years**

# Save millions in drydock expenses and off-hire time



*Hull of cruise ship after 5 years with Ecospeed coating with no replacement or major repair. This is the state of the hull when the ship came out of the water; without any cleaning or touch-up in drydock.*

**W**hen your hull coating never needs replacing or major repair, you can save a lot of money in drydock fees, off-hire time, materials and labor.

Most hull topcoats are designed to be replaced once or twice every five years. The full hull coating scheme has to be fully replaced every 10 - 15 years down to bare steel. Over that time period, the coating degrades and

becomes rougher until it's no longer worth trying to patch it up. And it costs you a fortune in fuel to compensate for the additional hull friction.

Imagine a coating that's guaranteed for 10 years and is expected to last 25 without replacement or major repair. A coating that gets smoother over time, not rougher.

Imagine coming into drydock after 3 or 5 years and finding that your hull coating only requires a few minor touch-ups and doesn't even need to be washed off.

Just think how much money you will save.

Call us today for a quote to convert your hull to Ecospeed or start off right, with Ecospeed, on a new build.

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# Ecoshield still in excellent condition on rudders after five years

**F**ive years after Ecoshield was applied on their rudders, three container vessels belonging to the same owner, docked in Naples, Italy. The coating was still in excellent condition and only small touch-ups were needed. Ecoshield will keep on protecting these rudders against cavitation and corrosion damage.

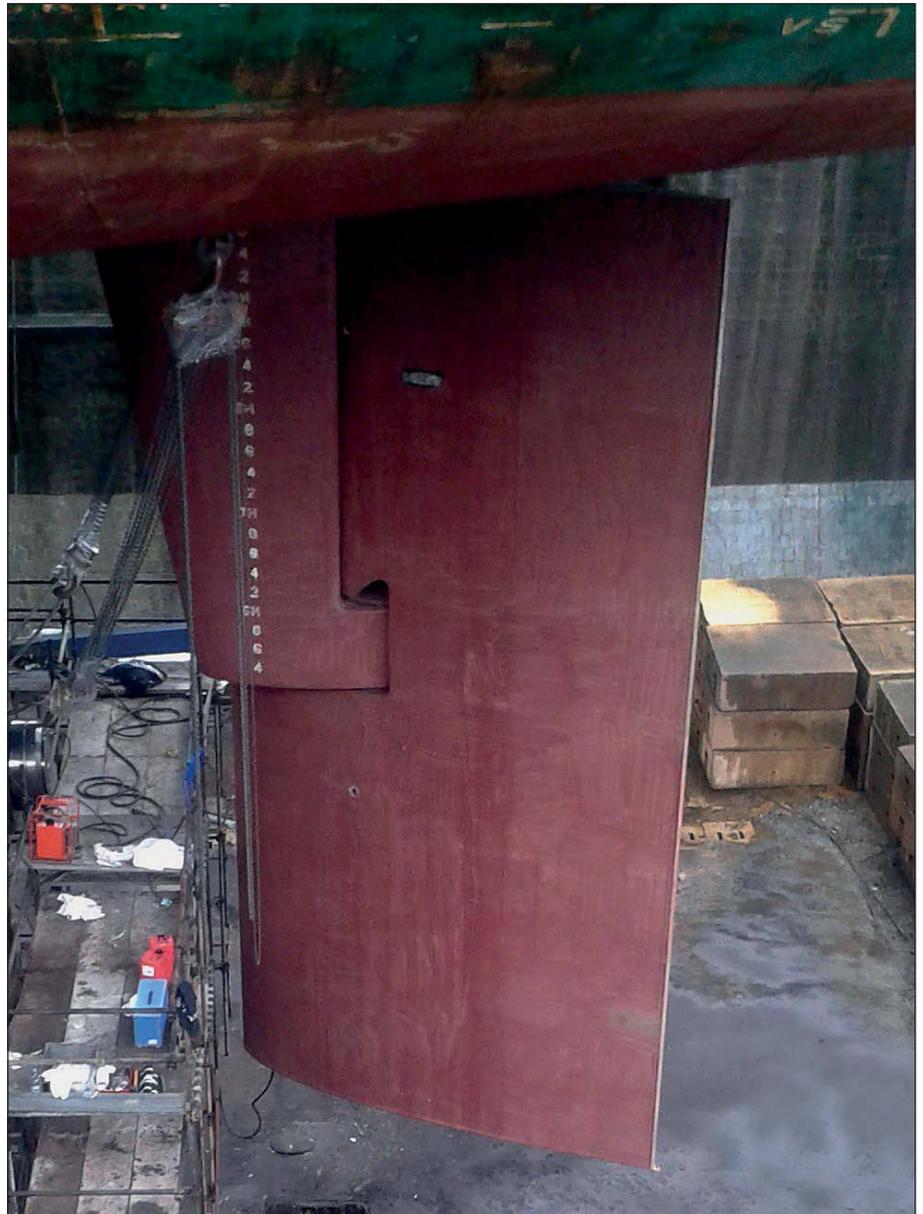
The rudder of another container vessel from the same owner was given the same treatment recently. He now has over 40 of his vessels sailing with Ecoshield on their rudders. The recent dockings in Naples confirmed once more that Ecoshield is the best possible way to protect your rudders against cavitation and corrosion damage.

## Different owners, different ship types, same lasting result

Over the last two months a number of other rudders were also coated with Ecoshield to safeguard them for the rest of their lifetime. Belonging to seven different owners, vehicle carriers, container vessels, bulk carriers and tankers were among the vessel types that were treated. No repaint will be needed on the rudders of all those vessels during future drydockings.

## Suited for newbuilds and existing vessels

Protection of the running gear of your ships is best begun at the new-build phase. When a ship comes into drydock, maintenance of its stern area, especially cavitation and corro-



*Rudder of container vessel after five years in service.*

sion damage repair, can take a long time. There are strict procedures concerning blasting, painting, welding and propeller and stern tube seal work. Painting is then assigned to the end of the schedule. As a consequence it may be rushed or not done at all or else prolong the stay in drydock.

With an Ecoshield application one can avoid these problems from day

one because the underwater gear will not need to be repainted during future drydockings. Ecoshield will remain intact for the lifetime of the vessel. It is guaranteed for ten years. At the most, quick and easy touch-ups amounting to less than 1% of the surface area will be required. Planning the maintenance of the vessel's stern area therefore becomes much easier.



*No full repaint was needed on rudders of the vessels that docked in Naples last month.*



*Surface preparation prior to Ecoshield application.*



*Ecoshield is applied in two identical layers offering a homogenous coating.*

The newbuild phase is the perfect time to apply Ecoshield. However, the coating can also be used to protect vessels that have been in service for some time and are already facing cavitation and corrosion damage. Such was the case with the rudders coated over the last months.

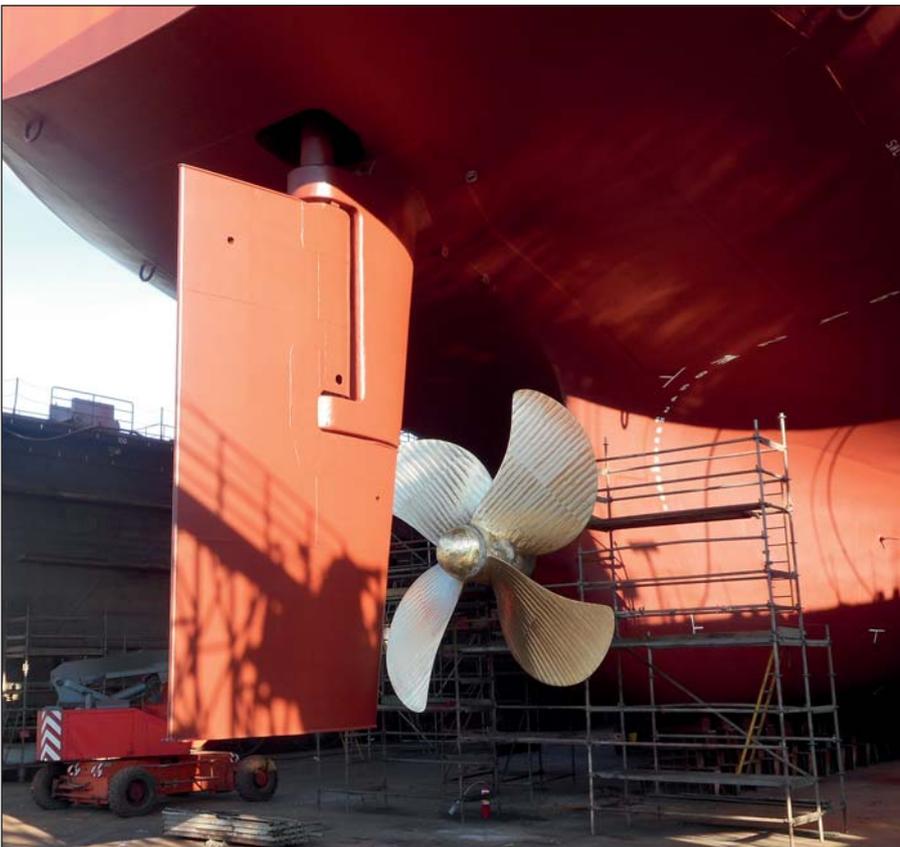
Ecoshield's flexibility makes it easy to adapt the application schedule to the rest of the activities at the shipyard or drydock in a way which does not interfere with them. Overcoating time can be as short as three hours, which means that for smaller surfaces such as rudders or bow thrusters the two coats required can usually be applied in one single day.

### **Groundbreaking protection for all running gear**

Besides offering rudder protection, Ecoshield is also suitable for thrusters, azimuth thrusters, azipods, thruster nozzles, Kort nozzles, thrust-



*No repaint will be required during future dockings.*

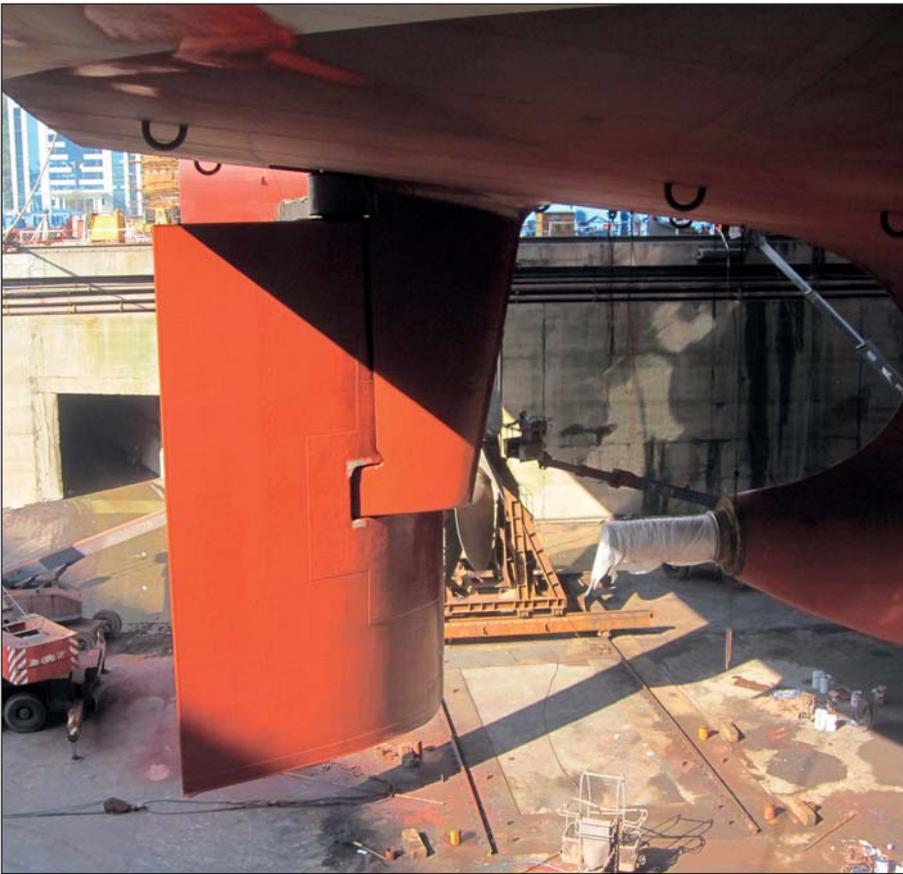


*No cavitation damage will occur after Ecoshield is applied.*

er tunnels and other underwater ship gear which needs special protection from corrosion. The extra strength coating protects these areas for the service life of the ship. There is no need for recoating or major repair. For this reason the nozzle of an oil tanker was also coated with Ecoshield, as was the thruster tunnel of a vehicle carrier.

### **Conclusion**

If one takes into account the costs of the temporary underwater repairs and the regular inspections required by a condition of class until the next drydocking or the costs for rudder repairs in drydock, it becomes clear that the investment in a coating system that offers extra protection from day one is very easily won back. For this reason more and more

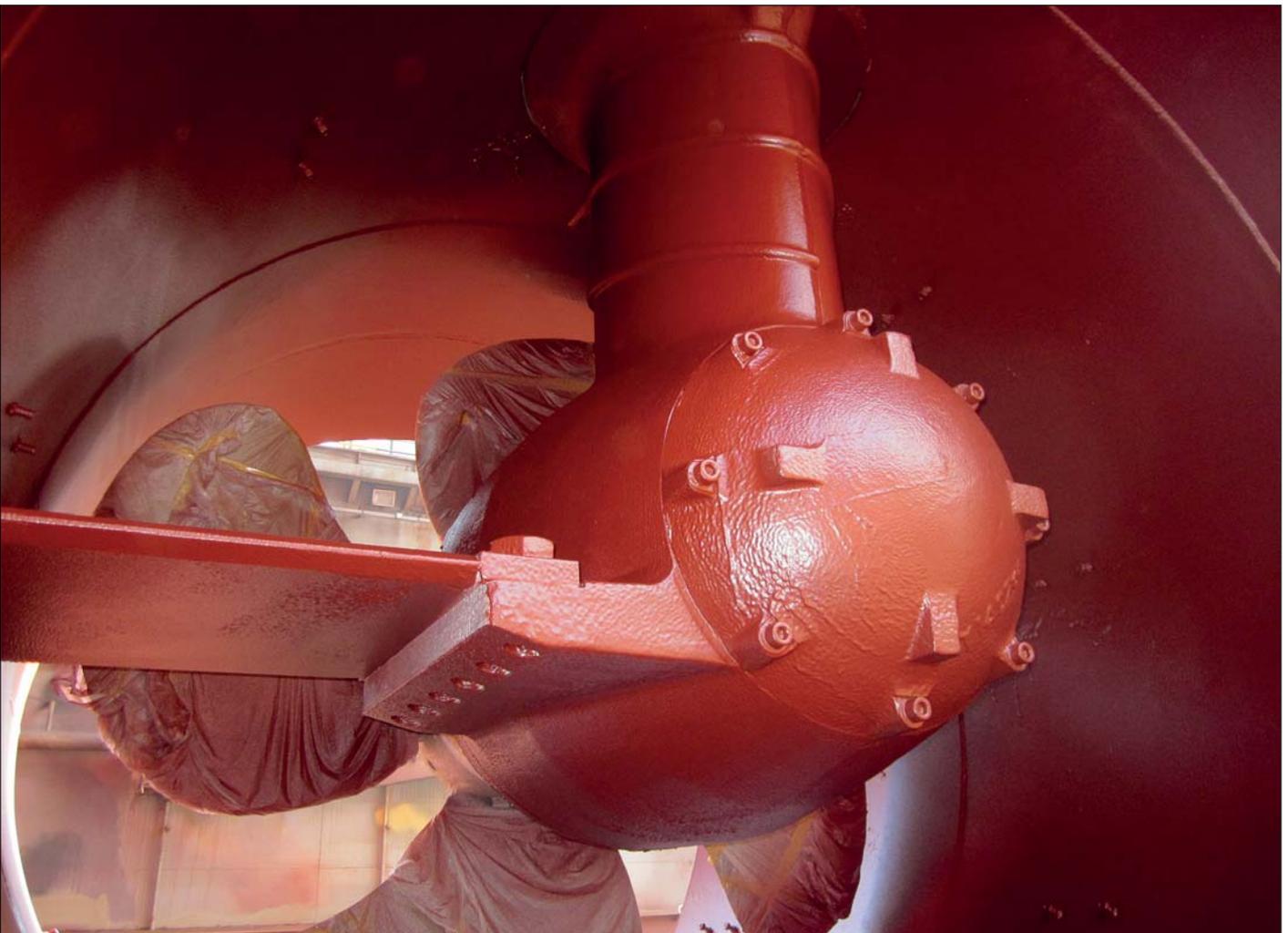


*An Ecoshield application is easily adapted to a yard's schedule.*

owners have Ecoshield applied on the rudders and other running gear of a large part of their fleet or have it included in the rudder specs of their newbuild vessels. These owners invest in the right coating system for protection because they know the savings that will result.

A White Paper with full details about protecting rudders and running gear from cavitation damage is available in the Publications/Papers section of [www.shiphullperformance.org](http://www.shiphullperformance.org) for free download.

You can give the rudders and running gear of your vessels the same lifelong protection. Contact one of our offices for more information. ■



*All running gear can receive lifelong protection with Ecoshield.*

# Underwater Cleaning Equipment

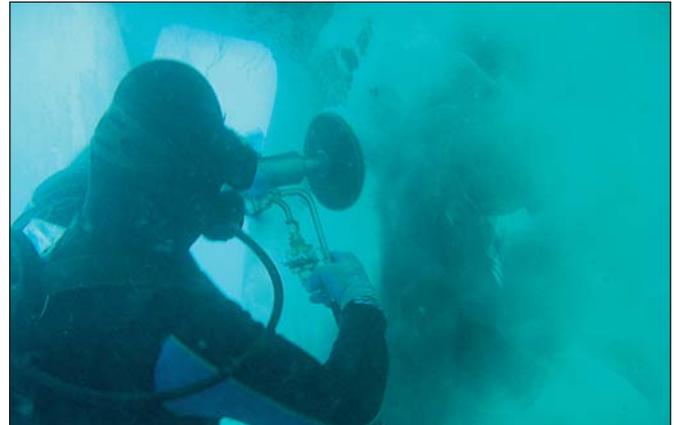
In harsh underwater environments it is essential to have sturdy and reliable equipment. The unique design of our underwater cleaning machines provides the

efficiency and durability required in such conditions. All our systems are carefully designed with operational safety as a prime consideration. A range of systems is available

for various applications. All our cleaning units are offered separately or supplied with a complete support system including umbilical, tools and hydraulic power

## MC 111

The MC111 is our smallest model specially designed for cleaning and polishing ship hulls, propellers and thrusters. The MC111 is very handy and can be easily taken into difficult corners and niches while still obtaining the desired results.



## MC 131

The MC131 is a compact unit designed for cleaning all kinds of marine fouling from yachts and smaller ships to offshore oil & gas platforms. The brush rotation speed is adjustable by the diver so as to achieve an optimum hourly cleaning rate.



## MC 212

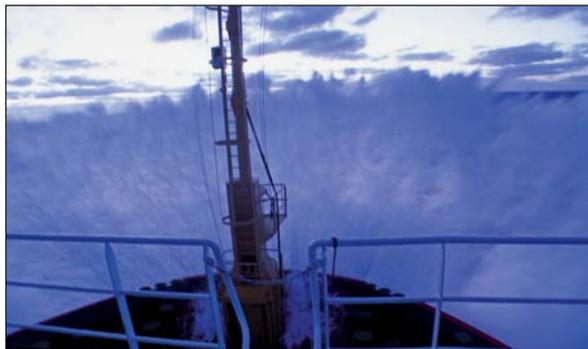
The MC212 is designed for cleaning light, medium and heavy marine fouling from ship hulls, offshore oil & gas platforms (concrete or steel), jetties, piles, intakes and internal pipelines. The equipment has a self-balancing feature, which allows the operator to use the tool safely and effortlessly for long periods.



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# SUBSEA INDUSTRIES



**W**e have changed the name of our monthly magazine. Up until now it was always called the Ecospeed Magazine. However, over the last few years the range of products that are covered in this publication have been growing. To represent this we felt that a name change was in order. And what better name giver than the company that has developed all these products: Subsea Industries NV.

Our ship hull performance system Ecospeed is off course still an important part of the content of the magazine, but over the last couple of years there has also been a lot of attention for Ecoshield, our coating for underwater running gear. Last year Ecolock, designed for offshore units, joined the ranks. Besides our award winning coating family of hard hull coating systems there is also our evolving line of underwater

hull and propeller cleaning equipment.

Whether it is the range of underwater cleaning equipment or the various 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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