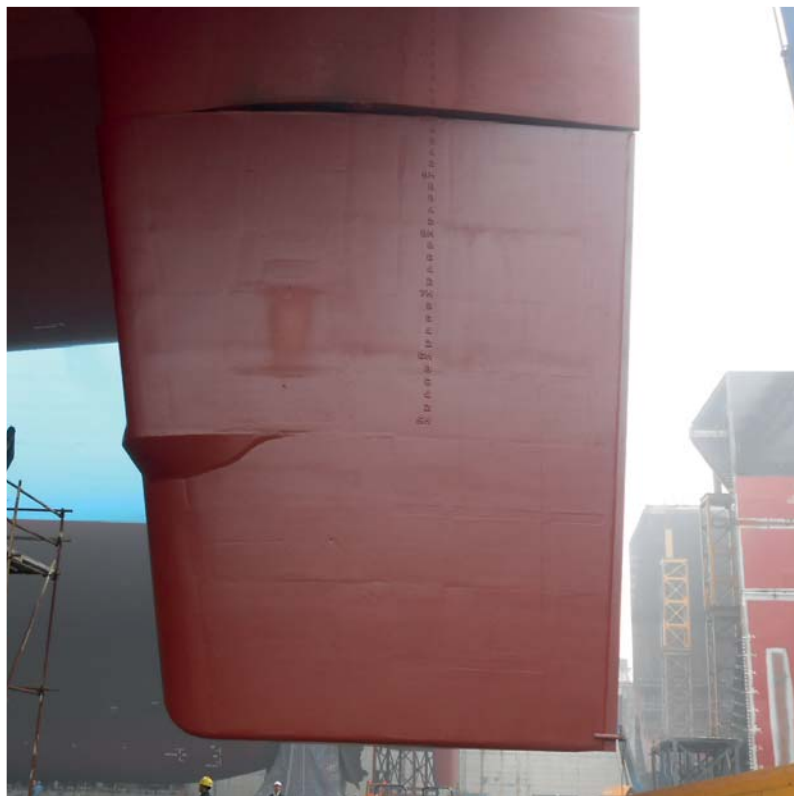
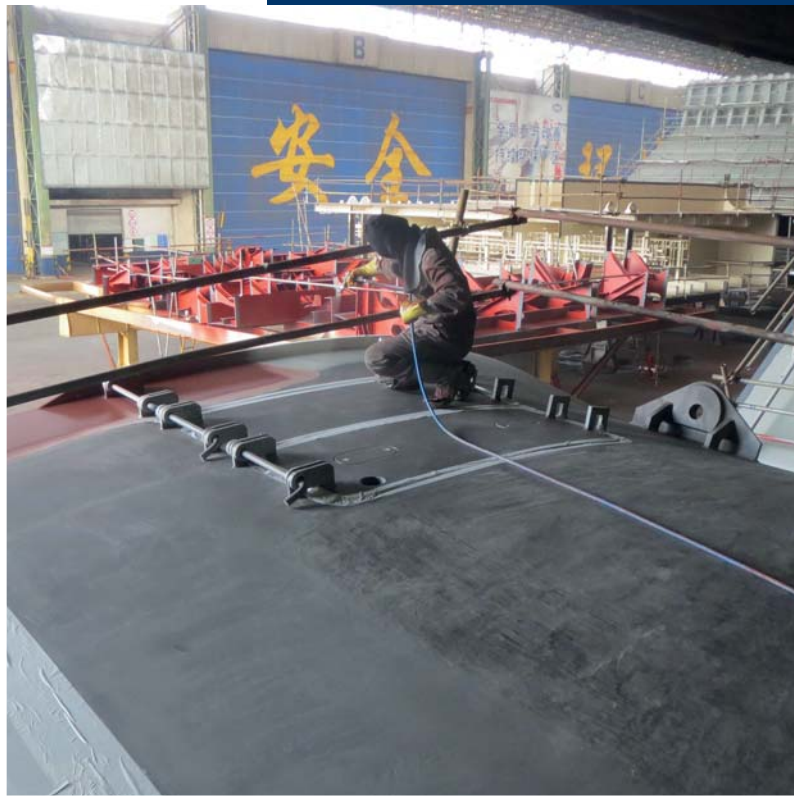
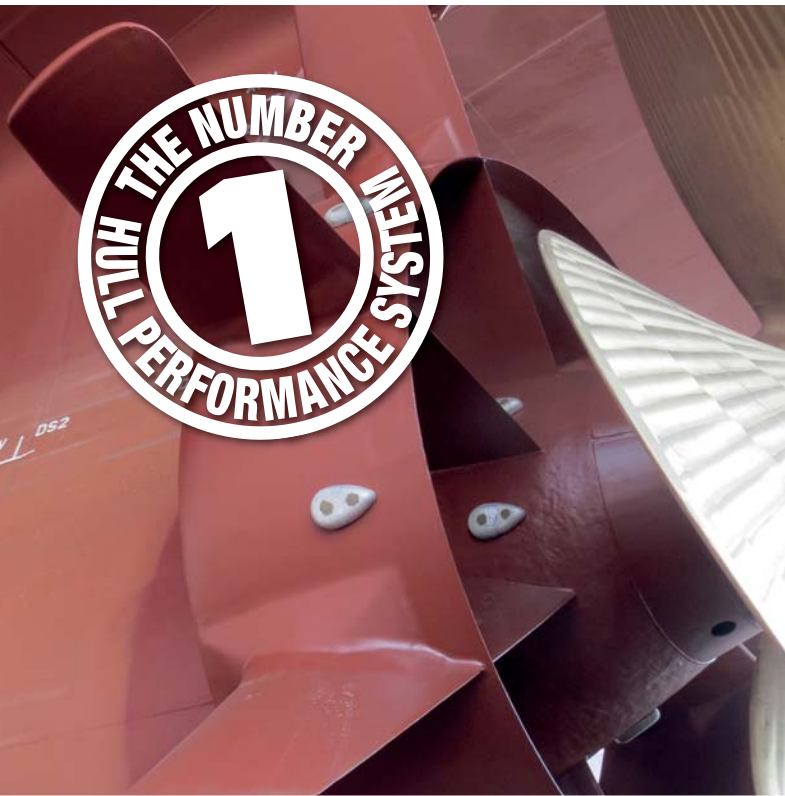


ECOSPEED®

SHIP HULL PERFORMANCE TECHNOLOGY

NEWS

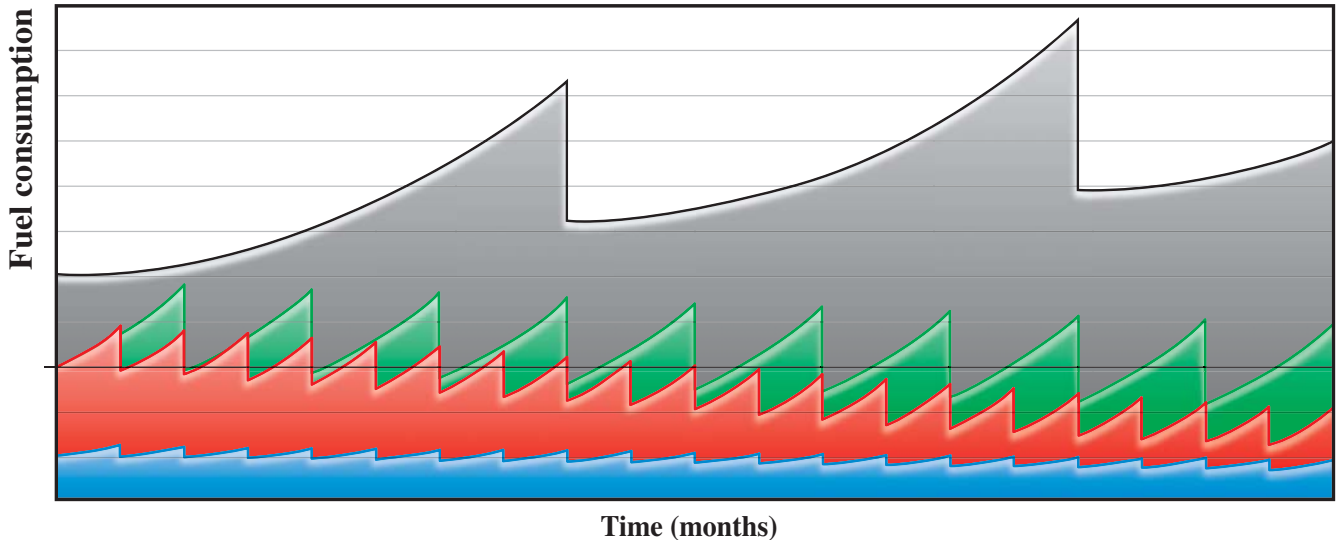
L E T T E R



Groundbreaking protection for rudders and running gear

Millions in fuel savings

Development of additional fuel consumption over time



- Ecospeed with 2 cleanings per year
- Ecospeed with 4 cleanings per year
- Ecospeed with optimum cleaning intervals
- Active antifouling paints

Most ships sail with a chartering contract that includes a penalty clause if fixed distance/fuel consumption ratios are not met. However, this is unpredictable with regular paint systems and will also worsen over the years. The ship becomes more expensive and profits are reduced.

The protective Ecospeed ship hull performance technology however

not only keeps the ship's performance stable but even improves it with repeated underwater maintenance. The coating is designed to be cleaned routinely with specially designed underwater hull cleaning tools. These simultaneously clean and improve the smoothness of the paint surface. This avoids penalties as well as producing enormous fuel savings.

One major cruise line has been quo-

ted as saying that they are saving 10% on fuel costs with Ecospeed compared to the earlier TBT coating which they replaced. Another cruise ship found that they gained 1.5 knots over sea trials speed when they replaced their hull coating with Ecospeed.

Contact us to find out how Ecospeed can help you achieve major fuel savings.

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Groundbreaking protection for rudders and running gear

The rudders of a large number of vessels were coated with Ecoshield over the last two months. The applications were carried out in China, Singapore, Turkey and South-Korea on different types of ships. Among the vessels treated were several newbuild container vessels, crude oil tankers, ro-ro vessels and Military Afloat Reach and Sustainability tankers (MARS).

Ecoshield has been tested on rudders since 2002 with extraordinary results. Just last month a container vessel drydocked in Zhoushan,



Rudder after surface preparation.



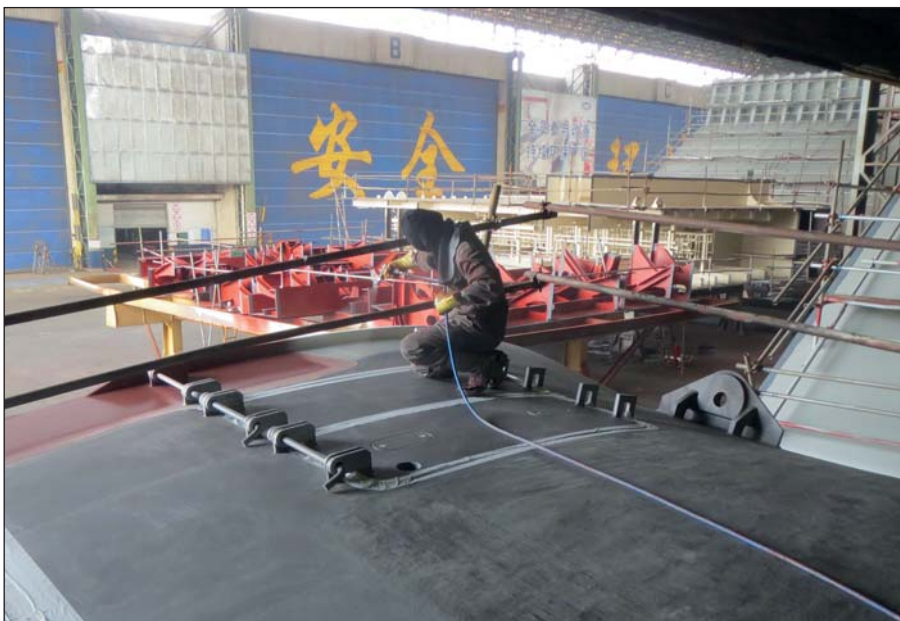
Rudder of container vessel after sailing with traditional coating system.



The same rudder after sailing with Ecoshield for five years.



Rudder and nozzle after application of first layer.



Application of first layer of Ecoshield.

China. The ship had been sailing with Ecoshield on its rudder for five years and, as expected, the coating was still in excellent condition. The owner of vessel was very satisfied with the result and said that 'Ecoshield works!' This was one of the first rudders this owner had coated with Ecoshield. Since then a large part of his fleet's rudders have been given the same protection. Among these are the newbuild con-

tainer vessels coated last month. They are part of a large series with more to come in the coming months.

Protection from day one

With an Ecoshield application the underwater gear will not need to be repainted during future drydockings. For this reason protection of the running gear is best begun at the newbuild phase. Ecoshield is gua-

ranteed for ten years and will remain intact for the lifetime of the vessel. At the most, quick and easy touch-ups amounting to less than 1% of the surface area will be required.

The newbuild phase is the perfect time to apply Ecoshield. The coating can however also be used to protect vessels that have been in service for some time and are already facing cavitation and corrosion damage.

The only coating that offers lasting protection for running gear

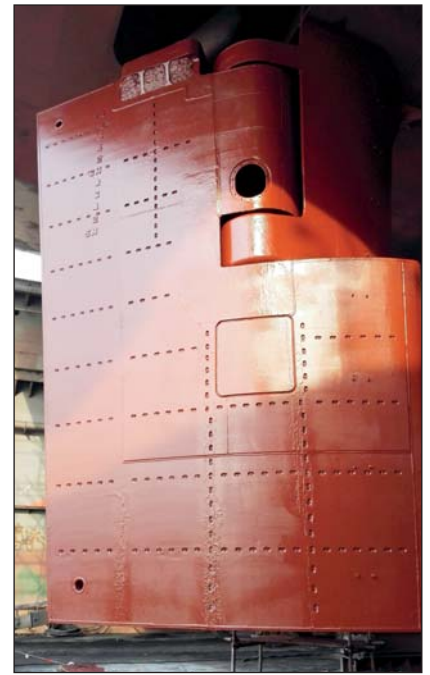
Ecoshield is not only suited for rudders. The coating also offers full and lasting protection for thrusters, azimuth thrusters, azipods, thruster nozzles, kort nozzles, thruster tunnels and other underwater ship gear which needs the best possible protection against corrosion. For this reason the propeller enhancement fins of several of the container vessels were also coated with Ecoshield, as was the thruster tunnel of the roro vessels and the nozzle of the crude oil tankers.



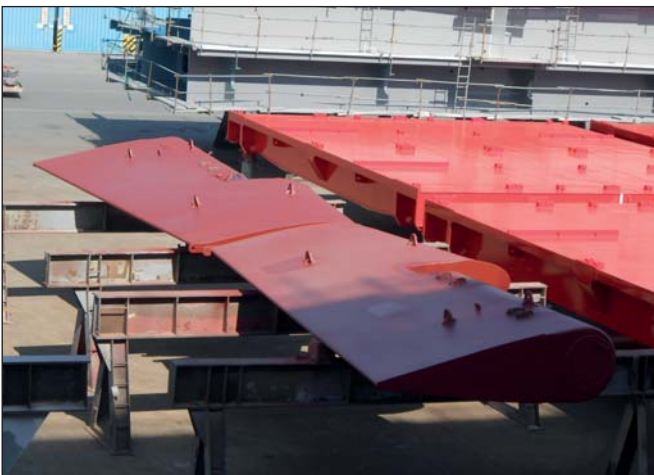
Ecoshield is applied in only two layers.



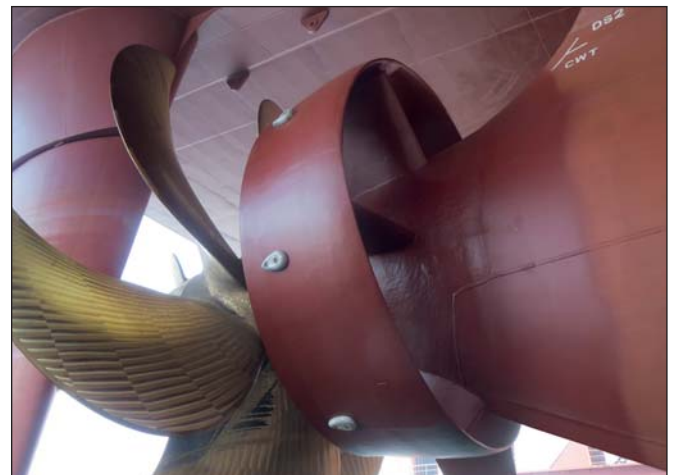
No repaint will be needed during future drydockings.



Rudder protected against cavitation for the rest of its service life.



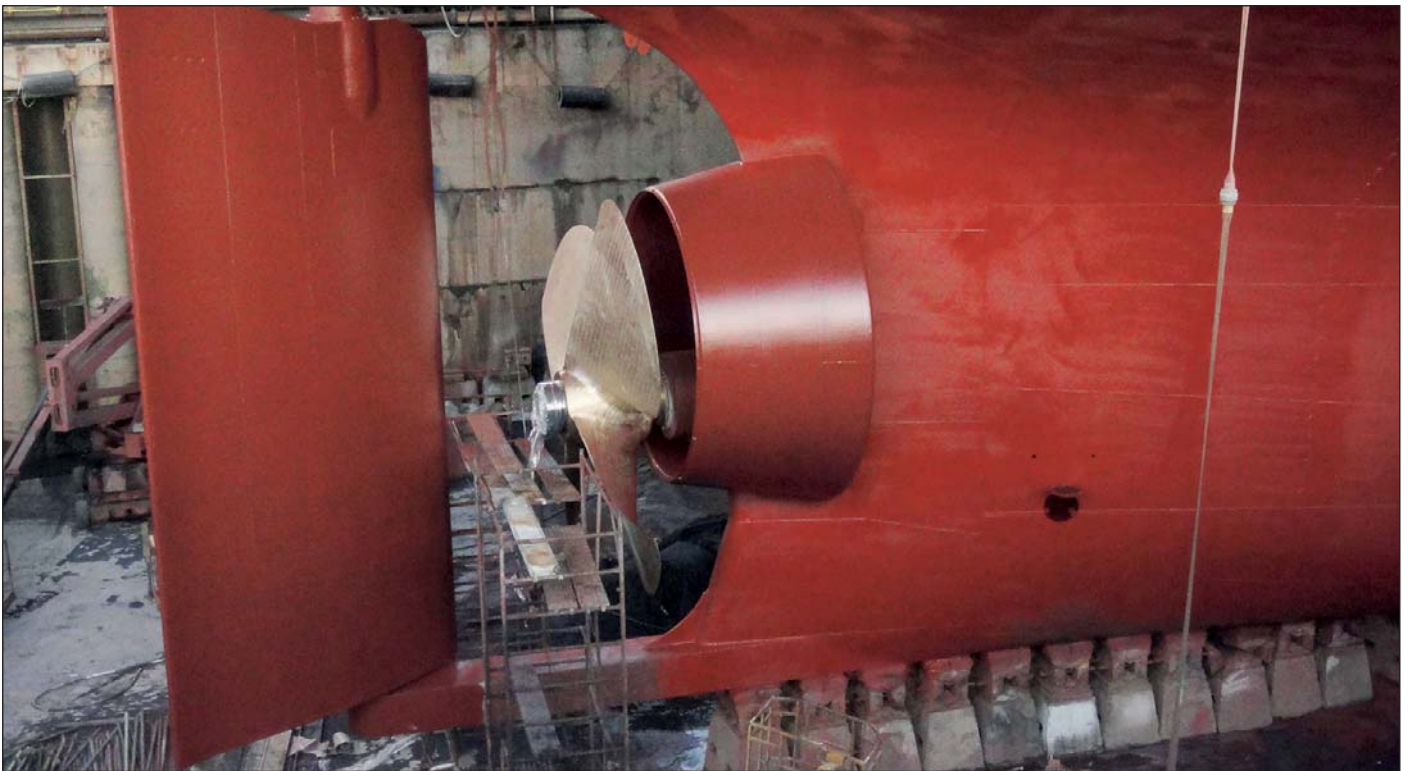
Rudders of newbuild vessels after Ecoshield application.



All running gear can be protected with Ecoshield.



Ecoshield is also the best possible protection for thruster tunnels.



Rudder and nozzle after application of Ecoshield.

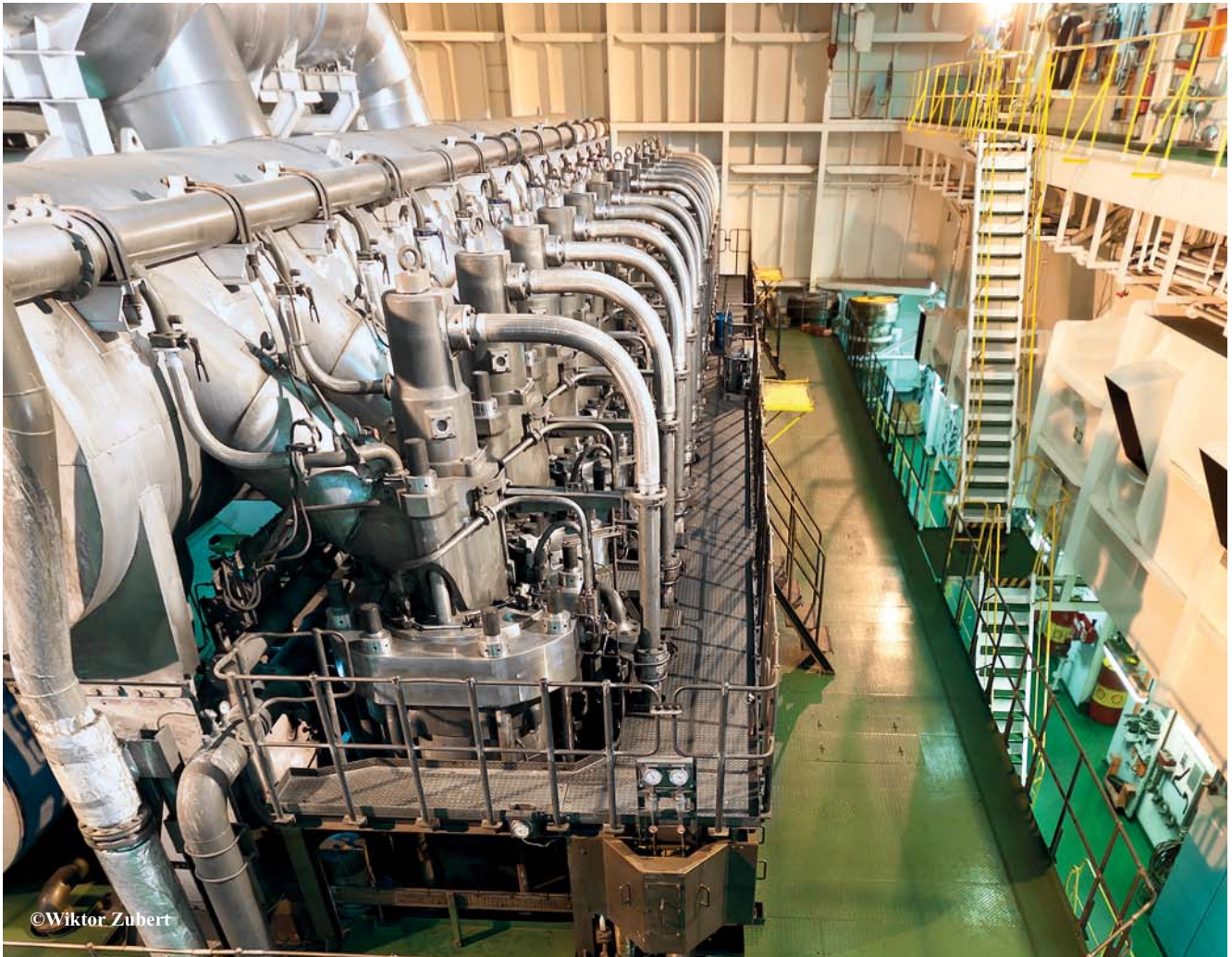
Conclusion

More and more 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 it will bring them.

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

ECOSHIELD[®]
THE DIAMOND STANDARD IN STEEL PROTECTION



The only hull performance system that gives your engine a break

Ecospeed provides your vessel with long-term protection and dramatically improves the ship's performance.

An impermeable and extremely tough coating is combined with an underwater cleaning system. This keeps the hull roughness at an optimum level and results in a

major saving in fuel.

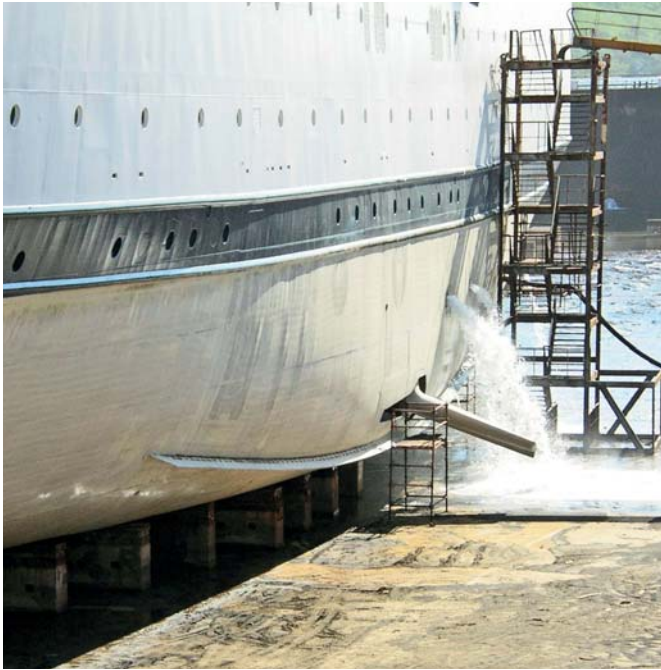
Ecospeed gives a very thorough and lasting defense against cavitation and corrosion damage for a ship hull's entire service life. The coating comes with a ten year guarantee. No repaint will be needed during future drydockings.

ECOSPEED[®]
SHIP HULL PERFORMANCE TECHNOLOGY

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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.

When 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.

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 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.

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

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.

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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