



**Ecospeed after 10 years**



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# Subsea Industries is looking for representative agents



**T**o 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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# Editorial

**W**elcome to the latest issue of our Subsea Magazine. In it you can read about our range of coating systems. Ecospeed is still an important part of our line of durable non-toxic coatings, while over the last couple of years we have paid a lot of attention to Ecoshield, our coating for underwater running gear.

Throughout the years I have seen firsthand the damage cavitation erosion causes to ships' rudders, running gear and the stern areas. It is a costly problem to repair, unless you have coated these underwater components with a system capable of significantly reducing the phenomenon.

Our Ecoshield coating is one such solution and has proven to work. The coating was developed especially for areas that are subject to cavitation and gives permanent protection against cavitation damage for all running gear.

Existing rudders that have not been properly protected may have experienced corrosion or cavitation damage. That is where sister coating Ecofix comes into play. The repair work needed on the underlying steel can now be done effectively and economically prior to an Ecoshield application.

The glassflake reinforced coating will then protect the rudder for the service life of the ship without need for recoating or major repair.

In 2015 Ecolock, designed for offshore units, joined the ranks. Ecolock is an extremely tough and dura-



ble coating designed to remain in excellent condition for 15 - 25 years without drydocking, repair or replacement. Ecolock can be cleaned underwater as often as needed to meet the UWILD and weight requirements of FPSOs, drill ships and other offshore vessels.

The latest members of the family is Ecolast, an ultraviolet resistant coating that preserves its color while at the same time offering the corrosion and abrasion protection our coatings are known for. Ecolast is highly resistant against salt, ultraviolet radiation, waves or even ice. Mechanical damage to the coated surface is minimized. This is especially important for (semi-)submerged structures like wind turbines that are located in splash or tidal zones.

We hope you enjoy reading this magazine. Do not hesitate to contact us if you have a question or want to know more about the benefits our coating systems can offer.

Subsea Industries NV  
Boud Van Rompay  
Founder

# Ecospeed still in excellent condition after 10 years on workboat

**T**en years after Ecospeed was applied on two of the Hydrex workboats, one of them docked in Antwerp. The coating was still in near-perfect condition and no repaint or touch-ups were required.

For the Hydrex divers that regularly clean the workboats this came as no surprise. “When we clean the hulls, the surrounding water remains clean. Only fouling is washed off the vessel,” said one of them. “Inspecting the hull of the vessel underwater always shows the pristine condition of Ecospeed. This is in sharp contrast with the regular anti-fouling coatings on other underwater hulls we see.”

Subsea Industries’ Executive Direc-



*Ecospeed on workboat after 10 years.*

tor Boud Van Rompay explained: “With Ecospeed there is no need to reblast and recoat the hull; no chance of corrosion, no impact on

the environment and, if regular hull cleaning is carried out, large fuel savings can be achieved.”



*No repaint or touch-ups were required after 10 years.*



*Ecospeed will keep protecting this workboat for the rest of its service life.*



*These workboats can be cleaned in just two hours without damaging the coating.*



*With Ecospeed there is no need to reblast and recoat the hull.*

“Vessels coated with Ecospeed can be cleaned effortlessly and legally in ports such as Rotterdam, which have banned the underwater hull cleaning of conventional hull coatings. There is zero environmental impact. The simplicity of cleaning hulls protected with our Ecospeed hard coating system allow Hydrex divers to clean our workboats in just two hours. They use our specially-designed tools and equipment,” said Van Rompay.

Ecospeed is not a foul-release paint but a coating system that requires a completely different, more cost-effective and environmentally acceptable approach to hull protection and anti-fouling. When Ecospeed is cleaned there is no paint loss and no toxic plumes are emitted to contaminate marine life and sediments.

Paint degradation is typical of traditional marine hull coatings, resulting in the need for reblasts and recoats more or less every time the vessel docks. This is costing shipowners



*Vessels coated with Ecospeed can be cleaned effortlessly and legally in ports such as Rotterdam.*

dearly and is completely unnecessary.

Ecospeed requires just two coats with a curing time of three hours between each one. A typical soft paint, however, requires four to five coats with a curing time of 12 hours between each.

Boud Van Rompay concludes: “We all have an environmental interest in what is happening in the water. It is therefore very important that we can clean Ecospeed hulls in water very quickly and without damage to the marine environment. Ecospeed is the only sustainable solution for protecting ship hulls.” ■

## Corrosion damage repair made easy

**S**ubsea Industries has a product for filling and building up a corroded and pitted steel surface to its original form prior to recoating with Ecoshield. Ecofix is as tough as the steel itself, machinable, and can be used to repair most pitting or corrosion damage on rudders, stabilizer fins, thrusters and other underwater gear.

Ecofix is used in combination with Ecoshield, the ultimate rudder protection coating. When a rudder or other piece of underwater ship gear has not been properly protected, the surface will become corroded.

Cavitation can cause severe pitting. 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 very expensive fillers. And because it is part of the Ecospeed/Ecoshield family, it is fully compatible with our coatings.



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# RRS Sir David Attenborough receives lifelong protection from Ecospeed



**When the polar research ship RRS Sir David Attenborough was launched its hull was protected by the most environmentally-safe hull coating ever developed: Subsea Industries' ice abrasion resistant and washable Ecospeed.**

RRS Sir David Attenborough is now afloat with a hull protected by the same Ecospeed coating that has protected its sisters, Ernest

Shackleton and James Clark Ross, for many years.

The vessel will undertake world-leading environmental research into climate change and ocean protection. As such, the vessel required a fully ice-strengthened coating, without being harmful to the environment. Ecospeed fulfils that requirement.

Ecospeed is a safe, hard-type coat-

ing with zero toxic compounds. It eliminates the potential pollution of polar waters with heavy metals or biocides and hull contamination during research activities, which is extremely important to the scientific work the vessel will carry out.

Contact us for further information on the cost and energy savings Ecospeed will bring for your (ice-going) vessels.

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# Californian boat owner returns for second Ecospeed application

**T**wo years after Ecospeed was applied to the hull of a ferry in California, a second vessel of the owner was given the same lasting protection.

Subsea Industries also supplied the ferry company with its hull cleaning equipment, designed to allow the rapid removal of all types of marine fouling. This further improves the smoothness of the paint surface. It allows divers to clean the underwater hull whenever needed without damaging the coating.

Cleanings are easy to organize because these boats are sailing on a fixed route. A cleaning schedule can therefore be implemented very easily and owners can control the hull and keep fuel consumption low.



*Application of smaller vessels can be done in a single day.*

The hull cleaning was outsourced to a diving company for regular maintenance. Having cleaned the first

ship on several occasions since application, they are very happy with it. All fouling is easily removed while the coating stays intact.

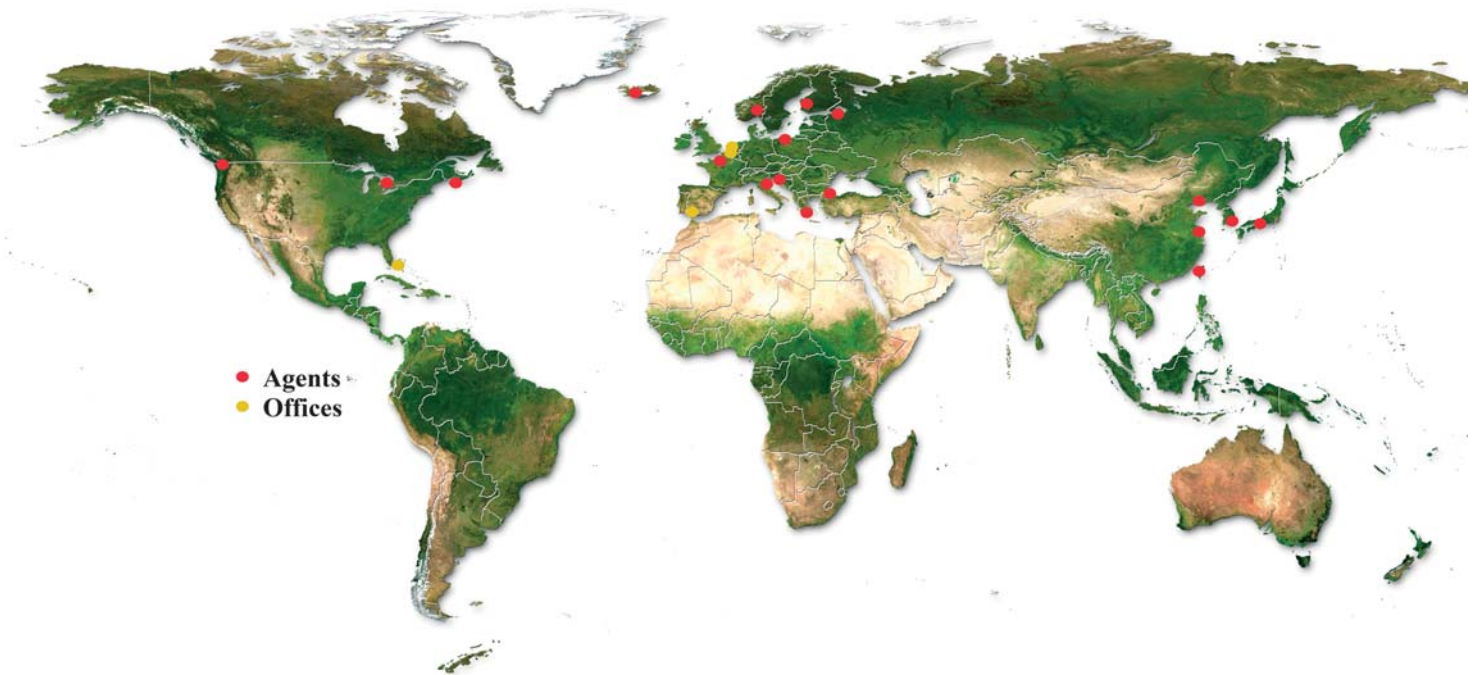


*Cleaning ferries is easy to organize because they are sailing on a fixed route.*

Ecospeed is 100% non-toxic and there is no negative effect on the water quality or the marine environment during maintenance. Several major ports have overturned the existing general ban on in-water hull cleaning, specifically making an exception for vessels coated with Ecospeed. ■



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# Ecolock ultra long-lasting protection for offshore hulls

**E**colock is designed to protect offshore vessels for decades without the need for drydocking. Increasingly, offshore units such as FPSOs, FSOs, FLRSUs and others used for offshore oil and gas exploration, drilling, storage and transport need to stay out of drydock for 15, 25 even 40 years.

The challenge has been to protect the underwater hull from corrosion and to provide a cleanable surface so that the biofouling that accumulates can be removed successfully and safely for UWILD and to reduce weight. Ecolock is the answer to that challenge.

Ecolock is an extremely tough and durable coating designed to remain in excellent condition for 15 - 25



*Floating Storage and Regastification Unit (FSRU) during its undocking.*

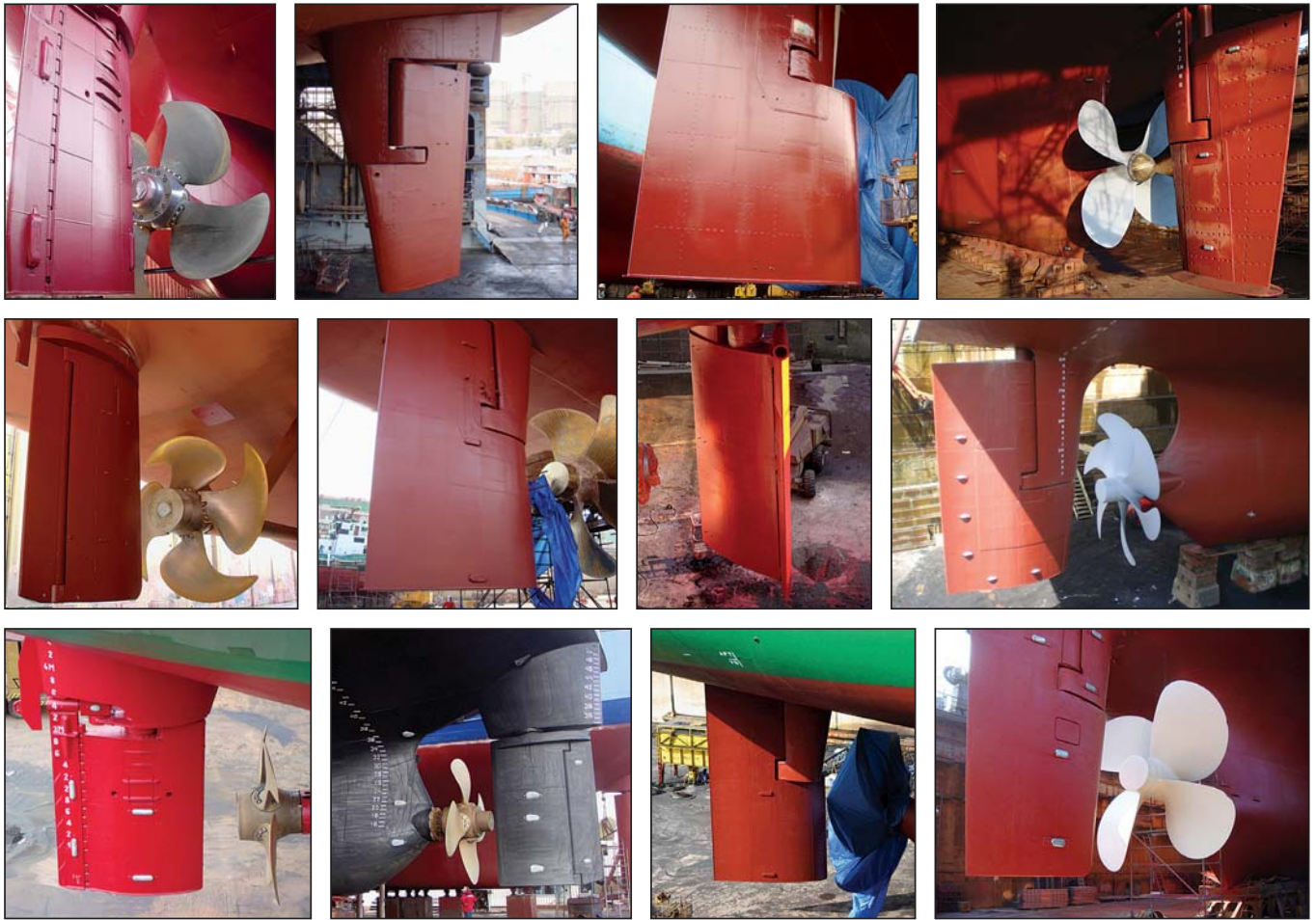
years without drydocking, repair or replacement. Ecolock can be cleaned underwater as often as needed to meet the UWILD and weight requirements of FPSOs, drill ships and other offshore vessels. Ecolock

is the result of continual R&D on offshore hull coatings since the 1990s.



*Ecolock is an extremely tough and durable coating designed to remain in excellent condition for 25 years without drydocking, repair or replacement.*

# LASTING PROTECTION



**E**coshield 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 drydock followed by a full repainting, again and again.

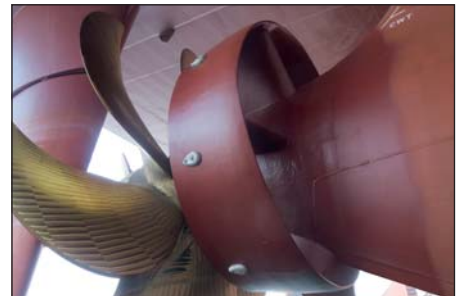
With an Ecoshield application no full repaint will be needed during drydocking. Ecoshield is guaranteed for ten years. At the most, minor touch-ups will be required.

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**ECOSHIELD®**  
ULTIMATE PROTECTION 

# SUBSEA

PROTECTION AND PERFORMANCE



**S**ubsea 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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