

SUBSEA

PROTECTION AND PERFORMANCE

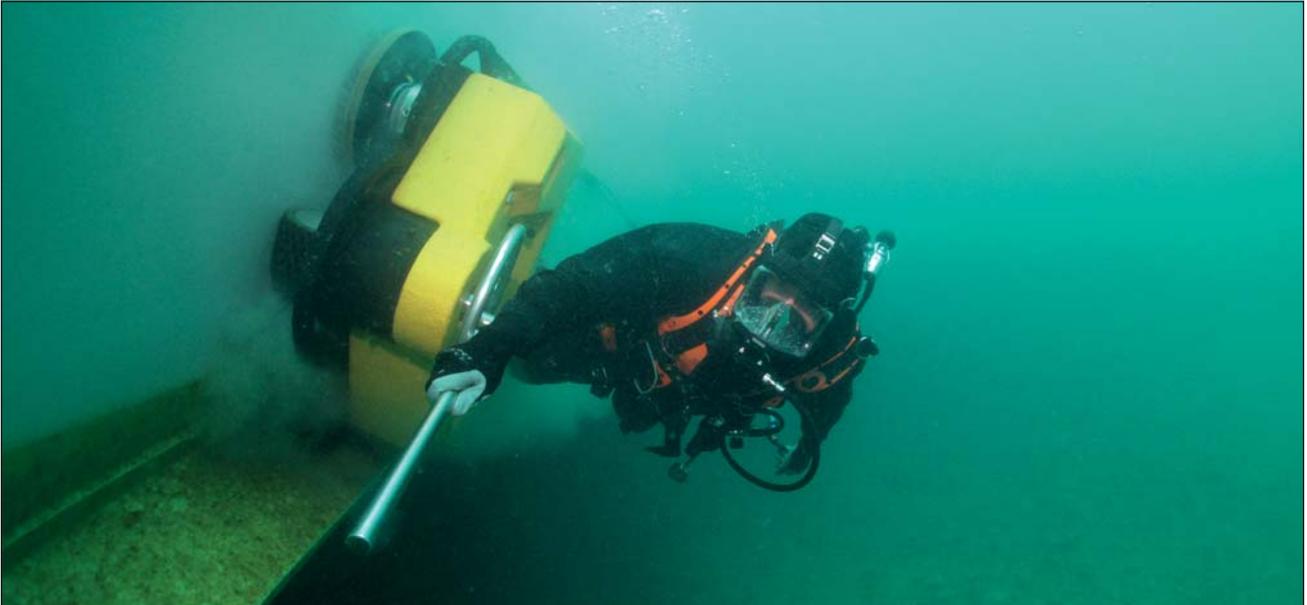
NEWS

LETTER



**Golden Gate provides first Californian
ferry reference for Ecospeed®**

The washable coating



Ship hulls should be protected with a system that lends itself to fast, effective cleaning without risk of damage to the coating and without posing any kind of hazard to the environment. Ecospeed is this system.

There is currently no hull coating available which will not foul. The only way to remove this fouling is to clean it off. The Ecospeed coating has a glassy surface that was designed to be washed without being damaged. This enables

fast and efficient fouling control throughout a ship's entire service life, either by fast and easy underwater maintenance or high-pressure cleaning in drydock.

ECOSPEED®
SHIP HULL PERFORMANCE TECHNOLOGY

Golden Gate provides first Californian ferry reference for Ecospeed®

The Ecospeed coating system has been applied to Golden Gate Ferry's M.S. *Marin*. This aluminum-hulled 750-passenger capacity Spaulding class ferry is owned and operated by the Golden Gate Bridge, Highway and Transportation District. Golden Gate Ferry chose to apply Ecospeed based on its environmental safety and durability.

Manuel Hof, Subsea Industries' Production Executive, said: "The application marks the first Ecospeed coating to a ferry operating in California. We have completed the application to the *Marin*'s hull and the operator will now evaluate performance."

In October last year, biofouling management regulations entered



Golden Gate Ferries' Marin was coated with Ecospeed at the end of May.
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into force requiring vessels entering the ports of California to have minimum biofouling on the underwater portion of their hulls and niche areas.

"While these regulations do not specifically apply to the Golden Gate vessel they will have a significant impact on other vessels trading in Californian waters," said Hof.



The ferry was docked at the Bay Ship & Yacht yard, just outside San Francisco.



The application went very smoothly, taking just one day.

“Ships whose records show that the coating on their hull is still within the specified lifetime will be presumed to comply. A ship whose coating is beyond its recommended life span, or one that is not using an antifouling coating at all, will be inspected and must not exceed 5%

biofouling on the hull and not more than 15% in niche areas.”

In-house developed underwater cleaning equipment

Hof explained that Subsea Industries has also supplied the ferry company

with its hull cleaning equipment, designed to allow the rapid removal of all types of marine fouling. “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 sold separately or supplied with a complete support system including umbilical, tools and hydraulic power unit.

“The operator’s intention is to out-source hull cleaning to a diving company for regular maintenance. Because the coating has just been applied, the first cleaning will most probably be during the upcoming summer period,” said Hof.

The Ecospeed application was carried out at Bay Ship & Yacht Co, a QP-1 certified yard based in Alameda, outside of San Francisco. The total surface area coated was 475m².



The first coat was applied in the morning, with the second coat applied in the afternoon.

The only coating that offers lasting rudder 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.

ECOSHIELD®
THE DIAMOND STANDARD IN STEEL PROTECTION

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Subsea Industries will be present at SMM in Hamburg, Germany from September 4 until September 7. We would like to welcome you at our booth 505 in hall B7, Holland pavilion.

If you would like to learn more about how Subsea Industries can assist you, please visit our booth at SMM. Our team will be happy to give you the information you need. You can also contact one of our

offices if you would like to make an appointment for the exhibition or if you need assistance. ■

4 - 7 sept 2018
tue - thu 9.30am - 6pm
fri 9.30am - 4pm

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Inspector at work during the application.

Application went very smoothly, taking just one day. The first coat was applied in the morning, with the second coat applied in the afternoon, as Bay Ship & Yacht's Senior Project Manager David Elliott explained.

“This being BSY’s first application of Ecospeed, our priority was to familiarise ourselves with the coating and then confirm how much product would be required for the project; it was vital to the project’s success that the correct quantities arrived ahead of the scheduled application date.

“An application sequence was

agreed with the applicators to ensure a synchronised approach to application. Each applicator knew where to start, the direction to go, and where to finish, all in advance of application.

Ecospeed was applied at a 25mil wet film thickness per layer to achieve a 20mil dry film thickness with the overall minimum dry film thickness amounting to 40mil. Due to the amount of planning and preparation that went into this application, BSY applied the Ecospeed with zero downtime and, due to the quick recoat window, was able to apply two coats of alternating colors in one shift. All aspects of the application

were overseen by a talented team who not only knew the importance of good technique but the necessity of planning, knowing the product, and planning execution.

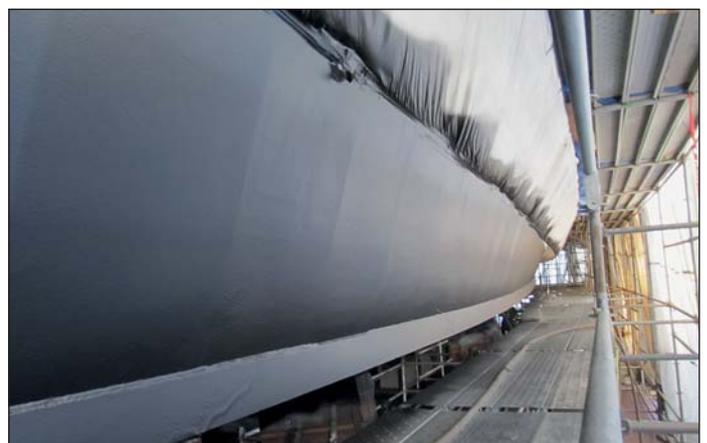
Chris Ward, the Technical Manager of BSY’s Paint Department, added: “In the maritime industry, a painter’s job is vessel protection via proper coating application; BSY has no doubt that its application of Ecospeed will serve the *Marin* well for years to come.”

The first-ever Ecospeed application of a Subsea Industries’ coating in the State of California was in 2012 when Ecolock was applied to the floaters of the semi-submersible *Odyssey*. The rig, stationed in the Port of Long beach, is used for launching satellites into space.

While California is one of the first to implement hull biofouling rules, US-based vessel operators expect others States to follow suit, particularly New York.

“We have recently applied Ecospeed to the hulls of five Staten Island ferries and believe more operators will consider the technology as the regulations take hold,” added Hof. ■

ECOSPEED®
SHIP HULL PERFORMANCE TECHNOLOGY



Golden Gate Ferry chose to apply Ecospeed based on its environmental safety and durability.

ECOLOCK® ultra long-lasting protection for offshore hulls



Ecolock 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

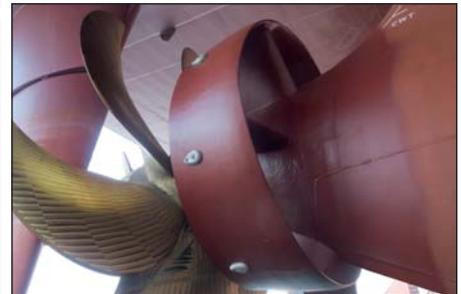
years without drydocking, repair or replacement. Ecolock can be cleaned underwater as often as needed to meet the UWILD and weight requirements of FPSOs, drill ships and other offshore vessels. Ecolock is the result of continual R&D on offshore hull coatings since the 1990s.

ECOLOCK®

LIFETIME CORROSION PROTECTION
FOR OFFSHORE UNITS

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SUBSEA INDUSTRIES



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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