

PPG SIGMAGLIDE® 1290 PPG SIGMADUR™ 1800

Our advantaged coatings generate improved efficiency, lower environmental impact and proven durability

Case study



The Customer

Owned by Cosiarma S.p.A. in Italy.
Managed by SEATRADE in the Netherlands.

The Vessel

The four M/V Cala Pino, Cala Pula, Cala Palma and Cala Pedra vessels are Reefers (refrigerated cargo ships).

The Challenge

Discoloration of the red paint on the topsides and boottop caused by chalking, extensive damage to the bow area and boottop, as well as keeping a clean hull for the full dry docking period.

The Solution

PPG SIGMAGLIDE® 1290 fouling release coating for the hull. PPG SIGMADUR™ 1800 finish coat for the topsides and boottop. PPG SIGMASHIELD™ 1200 as a primer for the bow and boottop. PPG SAILADVANCE™ RX antifouling applied to the bow area.

The Benefits

PPG SIGMAGLIDE 1290 pure silicone fouling release for a clean hull and improved speed and power. PPG SIGMADUR 1800 for outstanding gloss retention. PPG SIGMASHIELD 1200 for excellent abrasion and impact resistance.

The Result

The coatings performed so well on the Cala Pino and Cala Pula that the owner had same system applied to the Cala Palma and Cala Pedra.

The Customer

Founded in 1970, Cosiarma S.p.A. is a shipping company based in Genoa, Italy that provides maritime transportation services between Central America and the Mediterranean.

The company is engaged in the importation, marketing and distribution of fresh fruit and vegetables with a fleet of four modern reefer vessels.

The Challenge

Each of the four refrigerated cargo ships had suffered extensive damage to the bow area and boottop, along with discoloration of the company's distinctive red color.

The customer also wanted the vessels to benefit from having a clean hull for the full dry docking period as well as improved performance, along with reduced environmental impact.



PPG SIGMAGLIDE® 1290 and PPG SIGMADUR™ 1800

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The Solution

Our solution for the issues on all four vessels was to offer a system comprising our advantaged products.

The PPG SIGMADUR 1800 finish coat, with its patented high durability technology, was the ideal product to prevent discoloration of the red color on the topsides and keep it bright and vibrant. In addition, we applied our PPG SIGMAGLIDE 1290 fouling release coating for a clean hull as well as improved speed and power.

We also proposed our robust PPG SIGMASHIELD 1200 coating with superior impact- and abrasion resistance as a primer to provide optimal protection for both the bow area and boottop area, with the PPG SAILADVANCE RX antifouling then applied to the bow area and the PPG SIGMADUR 1800 finish coat for the boottop area.

The Benefits

Our PPG SIGMAGLIDE 1290 latest generation fouling release hull coating is based on a 100% pure silicone binder system. The biocide-free product helps to improve the vessels power performance and as such the EEXI (Energy Efficiency Existing Ship Index), save greenhouse gases and meet efficiency requirements. In addition to a clean hull, this premium hull coating delivers optimal performance through reduced power and minimal speed loss.

The PPG SIGMADUR 1800 product is our next-generation, low-VOC, high solids polymeric urethane gloss finish coat. As a final coat it provides excellent resistance to atmospheric exposure conditions with proven durability and long-lasting performance for up to 15 years. Its unique styrene-free formulation also provides exceptional color- and gloss retention.

The PPG SIGMASHIELD 1200 primer is a two-component, abrasion-resistant, solvent-free, amine-cured phenolic epoxy coating. This robust single-coat system is easy to clean and has excellent abrasion- and impact resistance. Its service life is expected to be more than 20 years when the dried film is not seriously damaged.

The PPG SAILADVANCE RX advanced low friction, self-lubricating antifouling is based on a self-release binder technology built on the CSP (controlled surface active polymers), which suppresses turbulent flow. This formulation results in low friction, idle time tolerance and minimal speed loss.

The Result

After application of the PPG coatings on the Cala Pino and Cala Pula, the owner was so satisfied with the result and performance of our coatings on both vessels that he requested the same coatings to be applied to the Cala Palma and Cala Pedra a year later.

PPG's service and support were an integral part of the successful coating application and ensured that both projects were delivered smoothly and efficiently.



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