The Customer
Tomasos Transport and Tourism (TTT Lines)

The Location
Naples, Italy and Piraeus, Greece

The Challenge
To deliver improved energy efficiency and reduced emissions

The Solution
The SIGMAGLIDE 990 pure silicone system

The Benefits
Significant fuel and maintenance cost savings

The Result
The sister vessel will be converted to the silicone system

The Customer
Tomasos Group is a reputable shipping organization with more than 100 years experience in sea transportation. Tomasos Transport and Tourism (TTT Lines) is an Italian company managing modern ferry boats.

The Challenge
TTT Lines vessels are committed to transport clients’ valuable and industrial products safely and efficiently. In such a competitive commercial environment, fuel costs are becoming increasingly important for owners and operators. In addition, complying with energy efficiency and environmental regulations is a major factor for Tomasos, as with other companies.

Therefore, the major challenge was how to ensure long-lasting protection against fouling with the benefit of reduced fuel consumption, plus minimizing both green house gas (GHG) emissions and operational costs.

Owners and operators know that choosing a conventional antifouling system will result in an increase in fouling and therefore friction, which will lead to higher fuel consumption. PPG provides the proven solution to this problem.
The Solution

At PPG, we foresaw the issue of rising fuel costs and developed the most advanced pure silicone fouling release system on the market: the SIGMAGLIDE 990 coating.

This innovative system helps owners and operators save fuel costs, while at the same time improves their environmental footprint by reducing GHG emissions and helps them to achieve a biocide-free operation.

That is why Tomasos decided in March 2012 to convert their RO-Pax vessel M/V Partenope to the SIGMAGLIDE 990 solution in order to benefit from significant fuel and operational cost savings, as well as to minimize GHG emissions and contribute to a cleaner environment.

The Benefits

The SIGMAGLIDE 990 coating considerably reduced the vessel's frictional resistance and delivered extremely low surface energy, providing a smoother surface profile and fouling resistance. As a result, significant fuel savings have been recognized immediately after the vessel's undocking.

Consequently, the owners are very satisfied with the properties of SIGMAGLIDE 990 coating as they experience a completely different, improved operational and sailing performance.

Proven Savings for Owners and Operators

In these competitive economic times, owners and operators are looking to combine enhanced productivity, environmental compliance and reduced costs.

This is why ship managers, always on the forefront of the shipping trends, choose the SIGMAGLIDE 990 system for their fleets to deliver the best performance available today. Owners across the globe are responding to the high level of confirmed fuel savings with more than 300 vessels worldwide currently benefitting from the unique solution provided by the SIGMAGLIDE system.

Main Benefits:

- Reduced fuel consumption
- Reduced GHG emissions
- Reduced maintenance work at next routine dry-docking
- A long-lasting, easy to maintain anticorrosive and fouling release system
- Efficient dry-docking – reduced out-of-service time
- Quicker return on investment

The Results

The owners were delighted with the outstanding performance of the SIGMAGLIDE 990 coating.

The improvements in energy savings made such an impression that the fleet manager at TTT Lines commented: “We are so satisfied with the results for the Partenope that we have also decided to convert our sister vessel, the Trinacria, to the SIGMAGLIDE 990 system.”

Top image: Application of the SIGMAGLIDE 990 coating to the M/V Partenope.
Bottom image: The M/V Trinacria coated with the SIGMAGLIDE 990 system.