

PPG SIGMADUR™ ONE

Heavy-duty single-pack finish improves onboard maintenance efficiency

Case study



The Customer

Stena Line B.V.

The Location

Hoek van Holland, The Netherlands

The Challenge

To reduce complexity in onboard maintenance by using a single-pack, easy-to-apply and quick-drying finish coat

The Solution

PPG SIGMADUR ONE single-pack finish for topsides, decks and superstructures

The Benefits

Easy-to-use coating simplifies onboard maintenance, minimizes application mistakes and provides durable performance with good ship aesthetics

The Result

The PPG SIGMADUR ONE coating was well received by Stena Line particularly for its ease of application, handling and storage

The Customer

Stena Line is one of the world's largest ferry companies with a modern fleet of 39 vessels and Europe's most comprehensive route network consisting of 23 ferry routes in Scandinavia and around the UK.

The company has six business areas based on its geographic markets: Scandinavia, Germany, the North Sea, the Irish Sea North, the Irish Sea South and the Baltic Sea. Part of the Stena Line organization, Stena Line B.V., has two vessels that operate each day from Hoek van Holland in The Netherlands to Killingholme, England across the North Sea.

The Stena Transit and its identical sister ship the Stena Transporter each have a capacity of 300 passengers and 33,690 gross tonnage.

The Challenge

Stena Line B.V. is constantly looking for imaginative ways to improve its onboard maintenance procedures. A key question was how the company could simplify onboard maintenance and sea stock management while improving coating application and crew efficiency – major operational issues for both individual vessels and fleet managers.

Coating management can become quite complex onboard, as was the case with the Stena Transporter, a freight transporter built in 2011 and operating in the North Sea.



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The Solution

PPG proposed the PPG SIGMADUR ONE finish coat to reduce the coating process complexity and make it easy for the Stena Transporter crew to apply the coating and simplify stock control.

The PPG SIGMADUR ONE coating is an ideal, user-friendly, heavy-duty finish to support crew members during onboard maintenance. Instead of a typical two-pack finish, it comes in one pack, so no mixing is required, which saves time and reduces mistakes during application. The finish is compatible with existing aged coatings, easy to apply, quick drying, and provides proven, long-lasting performance, making it a unique product in the market.

The Benefits

The PPG SIGMADUR ONE finish coat is suitable for topsides, decks and superstructures, and can be applied on virtually all ship types during onboard maintenance. The system is also supported by the PPG SIGMACARE® PLUS onboard maintenance crew support package.

The high-gloss PPG SIGMADUR ONE finish offers good color and gloss retention and comes in an extensive range of colors available through PPG's color network centers. A modern color identification computer and an advanced blending process ensure that all tinted coatings match to the color standards of any corporate livery or owner preferences. PPG color network centers can be found in all key ports along the main trading routes, so PPG can supply sea stock paints when and where customers bunker their vessels.

PPG SIGMADUR ONE benefits:

- Single-pack finish – more user-friendly for onboard maintenance
- Reduces complexity and maintenance time – improves crew efficiency
- Durable, high gloss performance – providing good ship aesthetics
- Smooth film – easy to clean
- Good mechanical properties
- Quick drying – fast return to service
- Excellent brush and roller application properties
- Compatible with existing aged coatings
- Available in any color of choice supplied through PPG global color network centers
- Supported by PPG SIGMACARE® PLUS onboard maintenance crew support package

The Result

There was a complex range of products previously used on the Stena Transporter. The use of the PPG SIGMADUR ONE finish coat on the topsides and decks of the vessel has saved time and reduced mistakes during application.

Captain H. de Boer of the Stena Transporter commented, “Onboard maintenance can be a complicated, time-consuming process. We’ve found that the PPG SIGMADUR ONE system has simplified the whole task, from storage and stock control through to the easy application of the paint.”



Images: The PPG SIGMADUR ONE finish coat is suitable for topsides, decks and superstructures, and can be applied on virtually all ship types during onboard maintenance

Visit ppgpmc.com or contact:

Asia Pacific ☎ +86-21-6025-2688 ✉ ppgpmc.ap@ppg.com | Europe, Middle East and Africa ☎ +32-3-3606-311 ✉ customers@ppg.com

Latin America ☎ +57-1-8764242 ext. 201 ✉ ppgpmcandean-ca@ppg.com | North America (US & Canada) ☎ +1-888-9PPGPMC ✉ PMCMarketing@ppg.com



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