

SIGMADUR™ ONE

Heavy-duty, single-pack finish improves onboard maintenance efficiency

Case study



The Customer

Wagenborg Shipping

The Location

Delfzijl, The Netherlands

The Challenge

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

The Solution

SIGMADUR ONE single-pack finish

The Benefits

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

The Result

Reduced waste and spillage, less application errors and the same satisfactory performance as with a two-component coating system

The Customer

Wagenborg Shipping in The Netherlands has more than 100 years' experience in Northwest Europe, the Mediterranean, trans-Atlantic routes and beyond. Its modern and environmentally friendly fleet of around 180 vessels has an average age of only 6.7 years with a capacity of 2,000–23,000 tonnes.

The Challenge

Wagenborg was looking for a coating system for their L-series vessels (the Laganborg, Lauwersborg, Lingeberg and the Loireborg), which are multipurpose vessels transporting mostly dry cargo.

The main requirement was that the system should be easier to apply for onboard staff, resulting in less application errors and spillage. As a result of the changing of crews, a great deal of paint was spilled because of errors in mixing the paint and through incorrect application. This resulted in a demotivated crew and weak results on the company's L-series vessels.



SIGMADUR™ ONE

Heavy-duty, single-pack finish improves onboard maintenance efficiency



The Solution

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

The 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

By using the SIGMADUR ONE single-pack system, the mistakes and spillage resulting from mixing errors has been drastically reduced. Not only that, the paint quality and performance achieved is similar to a traditional two-component system. Another key advantage is that once the vessel is in dry-dock it can be coated with a two-layer system again.

The system is also supported by the SIGMACARE® PLUS onboard maintenance crew support package.

The high-gloss 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.

SIGMADUR ONE benefits:

- Single-pack finish – more user-friendly for onboard maintenance
- Reduces complexity and maintenance time – improves crew efficiency
- Durable, high gloss performance – provides 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 SIGMACARE PLUS onboard maintenance crew support package

The Results

Since the application of the SIGMADUR ONE system, Wagenborg has seen much improved results in maintaining their L-series of vessels. In particular, the easy application, fast curing and reduction of paint spillage have resulted in Wagenborg now using the SIGMADUR ONE system for more vessels.

Izak van Rhijn, Technical Superintendent of Wagenborg Shipping B.V. commented, “We have noted the improved performance in our maintenance work with less spillage and paint used, a better quality application and surface finish, plus a happier and more motivated crew.”



Images: The SIGMADUR ONE finish coat is suitable for topsides, decks and superstructures, and can be applied on virtually all shiptypes 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

No rights can be derived from the content of this publication. Unless otherwise agreed upon in writing, all products and technical advice are subject to our terms of sale, available on our website ppgpmc.com. All rights reserved. The PPG logo, We protect and beautify the world, and all other PPG marks are property of the PPG group of companies. All other third-party marks are property of their respective owners. Use of them herein does not imply any affiliation with or endorsement by their respective owners. 615865-GLOB. Created June 2016. © 2016 PPG Industries, all rights reserved.

