

# BELZONA PROTECTS FAST FERRY BOW THRUSTERS FROM CAVITATION

ID: 900

Industry: *Marine*  
 Application: *SOS-Ships and Offshore Structures*

Customer Location: *Scandinavian Fast Ferry operator*  
 Application Date: *January 2002*

Substrate: *Aluminum*  
 Products: *\* Belzona® 1111 (Super Metal) Belzona® 2141 (ACR-Fluid Elastomer),*

## Problem

*Cavitation problems had manifested themselves in the Port and Starboard Bow Thruster Tunnels. Annual repairs had been attempted with glass flake coatings and Belzona® 1341, but none had been ideal allowing metal loss to continue in the tunnel.*



## Photograph Descriptions

\* Localized damage to Belzona® 1341 (Port) Extensive damage to Glass Flake lining (Starboard) Belzona® 2141 (Portside)  
 Inspection after 5 years service ,

## Application Situation

Bow Thrusters from a 900 Passenger High Speed Service Ferry capable of 38 knots.

## Application Method

Following removal of the existing coatings Belzona® 2141 was applied in accordance with a modified version of SOS-1 and SOS-2.

## Belzona Facts

Subsequent annual inspections have shown the Belzona® 2141 to provide outstanding cavitation protection. After nine (9) years in service the Belzona 2141 remains in excellent condition apart from a few mm<sup>2</sup> of mechanical damage. The client is extremely pleased with the application which has allowed them to extend the annual docking cycle to a bi-annual one

For more examples of Belzona Know - How In Action, please visit <https://khia.belzona.com>

ISO 9001:2015  
 FS 695214  
 ISO 14001:2015  
 EMS 695213

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 9000 Registered Quality  
 Management System.

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