

# BELZONA 1111 RETURNS PROPULSION UNIT ON A TOWBOAT BACK TO SERVICE

ID: 7691

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

Customer Location: *Towboat, Washington, USA*  
Application Date: *July - September, 2017*

Substrate: *Steel*  
Products: *\* Belzona 1111 (Super Metal) ,*  
*\* Belzona 1331 ,*

## Problem

*Erosion of the steel on this propulsion unit was getting fairly deep in some parts.*



## Photograph Descriptions

- \* 1. Original condition of the propulsion unit showing the corrosion and loss of material. ,
- \* 2. Application of Belzona 1111 complete. ,
- \* 3. Belzona 1111 sanded down to the correct profile, and grit blasted for the application of Belzona 1331. ,
- \* 4. Applying Belzona 1331. ,

## Application Situation

A towboat propulsion unit.

## Application Method

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

Belzona products are  
manufactured under an ISO  
9000 Registered Quality  
Management System.

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The application was carried out with modified versions of Belzona Know-How System Leaflets SOS-1 and SOS-2. The surface preparation and Belzona 1111 application to rebuild erosion was completed in July 2017. In September 2017 the application of Belzona 1331 took place. A 3-5 mil profile was achieved using alumina oxide. The surface was then washed down with a cleaner/degreaser and Belzona 1331 was applied at a thickness of 10 mils by brush. The following day the second 10 mil coat of Belzona 1331 in grey and was allowed to cure. This gave an overall system thickness of 20 mils. The Customer left a 1.5" section unfinished at the end where the two units would be attached upon installation in October 2017. After it was completely installed they grit blasted the un-coated joint and applied two coats of Belzona 1331 on the 3" un-coated section and 2" over the existing Belzona 1331 to leave a solid seamless finish. The entire application was performed by two employees, except for the blasting.

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