

# BELZONA REPAIR AND PROTECTS PROPELLER SHAFTS

ID: 8156

Industry: Marine

Customer Location: Ro-Ro Vessel Operator, ISTANBUL,  
TURKEY

Application: SOS-Ships and Offshore Structures

Application Date: October 2019

Substrate: Steel

Products: \* Belzona 1311 (Ceramic R-Metal) ,  
\* Belzona 1321 (Ceramic S-Metal) ,  
\* Belzona 9111 (Cleaner & Degreaser) ,

## Problem

Cavitation damage on the propeller shaft.



## Photograph Descriptions

- \* Cavitation damage on the propeller shaft. ,
- \* After surface preparation. ,
- \* Repair with Belzona 1311. ,
- \* Coating application with Belzona 1321. ,

## Application Situation

Ro-Ro Ship propeller shaft.

## Application Method

Application was carried out in accordance with Belzona Know-How System Leaflet SOS-01 and SOS-02. Shaft surface was prepared with SA 2,5 grit blasting. Surface then cleaned with Belzona 9111. Belzona 1311 was used to repair the damaged shaft surface. Belzona 1321 was applied to on top of Belzona 1311 within the overcoating window, without the need of additional surface preparation.

## Belzona Facts

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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Repair • Protect • Improve

Propeller shaft replacement would be very costly time consuming. Welding and machining at workshop requires the removal of the shaft which is time consuming and costly. In-situ repair with Belzona is low cost solution and saves time. The great advantage of Belzona 1321 is that it can be applied within a few hours on top of Belzona 1311 application. Belzona 1321 was used to achieve protection against cavitation.

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