

# BELZONA REPAIRS BOW THRUSTER

ID: 3642

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

Customer Location: *Shipyards, Bremerhaven, Germany*  
Application Date: *March 2011*

Substrate: *Cast steel*  
Products: *\* Belzona 1311 (Ceramic R-Metal) Belzona 1321 (Ceramic S-Metal) Belzona 4311 (Magma CR1),*

## Problem

*Extensive damage to the bevel gear system's casing.*



## Photograph Descriptions

- \* Extensive damage clearly visible ,
- \* Close-up following grit blasting ,
- \* Application in progress ,
- \* Completed application ,

## Application Situation

Bow thruster casing of a cargo ship.

## Application Method

The application was carried out in accordance with Belzona Know-How System Leaflet SOS-2.

## Belzona Facts

Docking time was approximately 10 days, a replacement was not possible. The job was won as a result of maintaining strong contact

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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**BELZONA**  
Repair • Protect • Improve

and reliable service delivery with the shipyard, shipping line and classification society. Belzona 4311 (Magma CR1) was applied not due to any chemical performance need but because the first inspection by the client is visual, and this extra layer gives a professional, aesthetical finish.

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