

# Belzona Reseats Rudder to a Rudder Stock

ID: 6319

Industry: Marine  
Application: SOS-Ships and Offshore Structures

Customer Location: British Columbia, Canada  
Application Date: June 2011

Substrate: Cast Iron  
Products: \* Belzona 1321 (Ceramic S-Metal) ,  
\* Belzona 9411 (Release Agent) ,

## Problem

Corrosion had developed between the two mating surfaces that made it impossible to effectively seal against sea water penetration. The alternate method of repair would be machining both surfaces which would have been impossible under these dry docking conditions.



## Photograph Descriptions

- \* The corroded surface of the rudder after grit blasting. ,
- \* The repair area coated with Belzona 1321. ,
- \* The completed application. ,

## Application Situation

The two mating surfaces of a rudder stock.

## Application Method

The application was carried out in accordance with a modified version of Belzona Know-How System Leaflet SOS-8. The corroded surface of the rudder was grit blasted to a near white metal finish. While the other surface was cleaned and coated with Belzona 9411. The grit blasted surface was given a full coat of Belzona 1321 and allowed to firm up for approximately 2 hours before it was bolted into position.

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 Facts

Utilizing one of many ABS approved procedures, the ship's owner was happy to approve the Belzona solution. Belzona repair materials also offer quick dry and shorter downtime repair with long lasting protection.

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