

Belzona Repairs Rudder Housing

ID: 7461

Industry: Marine
Application: SOS-Ships and Offshore Structures

Customer Location: Drydock, Greenock, Scotland
Application Date: March 2017

Substrate: Bronze/steel
Products: * Belzona 1111 (Supermetal) ,

Problem

The normal repair method would involve shrink fitting the bush back into place. The erosion/corrosion on the housing & bush was too severe for this method to be used.



Photograph Descriptions

- * 1- Area to be repaired ,
- * 2- Bush showing large amounts of wear ,
- * 3- Housing before grit blasting ,
- * 4- Bush bonded in & aligned ,

Application Situation

Passenger ferry in dry dock. A becker rudder pintle bush had become loose due to galvanic corrosion. The bush had slipped down the rudder pin & had begun to wear on the housing itself.

Application Method

The application was carried out in accordance with Belzona System Leaflet SOS-9. The bush was machined to give a 5mm clearance.

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
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The housing was grit blasted and Belzona 1111 applied to the two parts, then the bush was pressed into position. Care had to be taken to ensure the correct alignment of the piece.

Belzona Facts

The Belzona solution avoided the hotwork involved with the original solution, as well as ensuring a speedy return to service. Belzona 1111 ensures the original issue of galvanic corrosion will not reoccur, extending the service life.

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