

# BELZONA REPAIRS AND PROTECTS HOUSING

ID: 5395

Industry: Marine  
Application: SOS-Ships and Offshore Structures

Customer Location: Norfolk, VA, USA  
Application Date: 2011

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

## Problem

Severe erosion and pitting of the jet drive transom housings threaten the service life cycle of the equipment and reduce the efficiency of the jet drive system.



## Photograph Descriptions

- \* Blasted port transom housing ,
- \* Mold is in place and the Belzona rebuilding metal is being applied to return the housing to the original dimensions and contours ,
- \* The completed port transom coated with Belzona 1321. The molded jet drive clearances are perfect ,
- \* Stern view of the Special Operations Craft and the transoms (covered by tarps) ,

## Application Situation

Erosion and corrosion caused a major loss of metal in the jet drive transom housing.

## Application Method

The transom housing was blasted to a near white metal finish. A former was manufactured to mold the critical clearances to 1-2 mm between the removable jet drive and the boat transom housing. Once the rebuilding and molding was completed, two coats of Belzona 1321 were applied.

## Belzona Facts

The alternative to the Belzona repair is replacement of the housing. The customers estimates the cost to replace the housing is

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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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\$50k+ per transom. Since there are 2 transoms to be repaired, it would cost \$100k+. Belzona's rebuilding, molding and coating totaled \$18,585.

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