

# BELZONA SUPER METAL RESTORES STRUTS ON A DREDGING VESSEL

ID: 7762

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

Customer Location: *Oregon, USA*  
Application Date: *January 2018*

Substrate: *Steel*  
Products: *\* Belzona 1111 (Super Metal) ,*

## Problem

*The internals of all 4 struts had suffered erosion and corrosion from seawater and needed to be restored.*



## Photograph Descriptions

- \* 2 of 4 struts that needed restoration ,
- \* A clean, solid, roughened substrate ,
- \* Surface built up with Belzona 1111 ,
- \* Completed application ready for cutlass bearings ,

## Application Situation

Struts supporting propulsion system and housing cutlass bearings on 200 foot dredging vessel.

## Application Method

The application was carried out in accordance with SOS-9 BelzonaKnow-How System Leaflet. The substrate was machined down via boring to achieve a clean, solid substrate free of any corrosion. Substrate was then blasted with an angular grit to give a minimum surface profile of 3 mils. Substrate was then power washed with HoldTight 102 to bring salt contamination to acceptable levels. Belzona 1111 was then mixed and applied to build up the surface proud and then once cured, machined back to tolerance.

## Belzona Facts

The alternative to this repair would be a massive amount of welding. Welding would also introduce the possibility of Galvanic corrosion. The customer chose the Belzona solution to save time and money and to prolong the repair of their asset. Belzona 1111 will not corrode in seawater.

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

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