

# BELZONA PROTECTS PROPULSION UNIT ON FERRY

ID: 1436

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

Customer Location: *Ferry, Ontario, Canada*  
Application Date: *February, 2010*

Substrate: *Mild Steel*  
Products: *\* Belzona® 1311 (Ceramic R Metal) ,*  
*\* Belzona® 2141 (ACR Fluid Elastomer) ,*

## Problem

*Erosion had worn through nozzle. Welding considered but high risk of distortion and expensive.*



## Photograph Descriptions

- \* Rolls Royce drive unit on Ferry ,
- \* Nozzle of drive showing corrosion and erosion from cavitation ,
- \* Inner surface grit blasted and erosion damage built up using Belzona® 1311 ,
- \* Application of Belzona® 2141 completed ,

## Application Situation

Nozzle of drive unit eroded due to cavitation.

## Application Method

Application was carried out in accordance with Belzona Know-How System Leaflets SOS-1 & 2. After grit blasting, Belzona® 1311 was used to replace eroded metal. Belzona® 2141 system was then applied to the nozzle extending the application over both the leading and trailing edges to give maximum protection.

## Belzona Facts

Welding was an option but cost would have been \$5500 and the distortion would have been a problem. Total cost using Belzona system was less than \$3800 with no risk of distortion. In addition unit protected from future erosion corrosion.

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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