

# Pump Repair and Protection with Belzona 1814

ID: 8313

Industry: Marine

Customer Location: Lisbon, Portugal

Application: SHM-Solids Handling Machinery

Application Date: 2019

Substrate: Steel

Products: \* Belzona 1311 (Ceramic R-Metal) ,  
\* Belzona 1321 (Ceramic S-Metal) ,  
\* Belzona 1814 ,

## Problem

The pump was suffering from corrosion and also abrasion/erosion from the entrained solids within the process, this was causing a loss in pump efficiency.



## Photograph Descriptions

- \* Before application ,
- \* Rebuilding body of the pump with Belzona 1814 ,
- \* Rebuilding pump vanes with Belzona 1814, other sections rebuilt with Belzona 1311 ,
- \* Final application - 2 coats of Belzona 1321 ,

## Application Situation

Rebuilding and protecting a pump for a shipyard.

## Application Method

The application was carried out in accordance with Belzona Know-How System Leaflet SHM-11. The whole interior and exterior of the pump was grit blasted to SA 2.5. Once grit blasted, the vanes and the center section of the pump were applied with Belzona 1814 as these area was where the most severe abrasion/erosion was occurring. The other less severe areas were rebuilt with Belzona 1311. Once the rebuilding with Belzona 1814 & 1311 was done the whole interior section of the pump was coated with 2 coats of Belzona 1321 for added erosion and corrosion protection.

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  
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## Belzona Facts

The customer chose the Belzona solution based off a previous job where a pump was repaired with Belzona 1812 and still in excellent condition several years later. The customer was also having problems welding this pump and liked how easy the Belzona was to apply from the previous application.

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