

# BELZONA REPAIRS AND COATS PUMP CASE

ID: 5228

Industry: Mining & Quarrying

Customer Location: Mine, Brazil

Application: CEP-Centrifugal Pumps

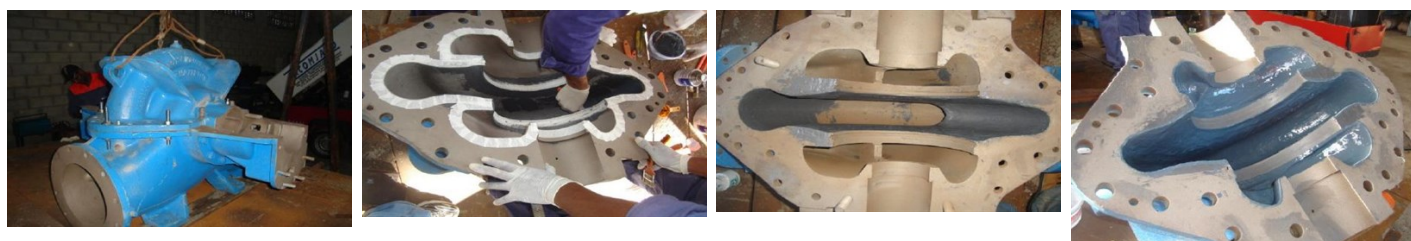
Application Date: May 2006

Substrate: Cast Iron

Products: \* Belzona 1111 (Super Metal) ,  
\* Belzona 1311 (Ceramic R-Metal) ,  
\* Belzona 1391 (Ceramic HT) ,

## Problem

The equipment presented minor wear due to localized corrosion on the casing. It was necessary to restore the worn areas and apply a lining with excellent corrosion and high temperature resistance. The fluid consists of a caustic soda solution with few solids at a temperature of 81° C. Speed rotation: 1789 rpm.



## Photograph Descriptions

- \* Equipment assembled before the repair ,
- \* Case refurbishment with Belzona 1111 ,
- \* Case refurbishment concluded with Belzona 1111 ,
- \* Service concluded, case lined with Belzona 1391 ,

## Application Situation

Pump case.

## Application Method

The repair and coating were carried out in accordance with Belzona Know-How System Leaflets CEP -3 & CEP-5. The surface was prepared by dry abrasive blasting at near white metal. After the surface preparation, Belzona 1311 was applied to rebuild the casing and Belzona 1111 was applied on the ring seating. After that, a single coat of Belzona 1391 was applied with a 600 to 750 µm thickness on the entire internal surface of the casing.

## Belzona Facts

Belzona offered efficient repair and coating to pumps without the risk of distortion. Belzona 1391 offered excellent protection

For more examples of Belzona Know - How In Action, please visit <https://khia.belzona.com>

ISO 9001:2015

Belzona products are

FS 695214

manufactured under an ISO

ISO 14001:2015

9000 Registered Quality

EMS 695213

Management System.

[www.belzona.com](http://www.belzona.com)



operating at 81°C.

---

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  
Management System.

[www.belzona.com](http://www.belzona.com)

