

# BELZONA REPAIRS AND PROTECTS CENTRIFUGAL PUMP HOUSING IN AN INDUSTRIAL MINE

ID: 5088

Industry: *Mining & Quarrying*  
Application: *SHM-Solids Handling Machinery*

Customer Location: *Gold Extraction Mine, Guatemala*  
Application Date: *December 2006*

Substrate: *Cast iron*  
Products: *\* Belzona® 1111 (Super Metal) ,*  
*\* Belzona® 1811 (Ceramic Carbide) ,*

## Problem

*Due to the severe abrasive conditions caused by the suspended solids, the pump casing was severely stripped and holes appeared in the housing.*



## Photograph Descriptions

- \* Centrifugal pump housing ,
- \* Holes due to severe abrasion ,
- \* Application of the lining ,
- \* Application completed ,

## Application Situation

Reconstruction and abrasion-resistant lining of the pump housing of the mud conveyor.

## Application Method

The preparation of the surface was done using a sand blasting method. The application was carried out in accordance with SSPC-SP 10 and Belzona System Leaflet SHM-11.

## Belzona Facts

In this application, Belzona lining is considered a sacrificial material, which saves the mine a lot of expenses, since it reduces

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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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maintenance downtime. The mine also avoided crystallization of metal that would have resulted from conventional welding.

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