

# BELZONA REPAIRS AND PROTECTS THE LINING OF FLOTATION CELLS

ID: 5210

Industry: Mining & Quarrying

Application:

Substrate: Carbon steel

Products: \* Belzona 1311 (Ceramic R Metal) ,  
\* Belzona 1321 (Ceramic S Metal) ,  
\* Belzona 1812 (Ceramic Carbide) ,

Customer Location: Mining Plant, Brazil

Application Date: October, 2009

## Problem

Copper pulp leak through the bottom of the flotation cell due to corrosion and localized worn areas with severe abrasion.



## Photograph Descriptions

- \* Bottom of the flotation cell showing corrosion areas ,
- \* Holes repaired with Belzona 1812 ,
- \* Holes repaired with Belzona 1311 ,
- \* Bottom of the flotation cell coated with Belzona 1321 ,

## Application Situation

Flotation cell of 6.5 meters in diameter and bottom area of 33.2 m2

## Application Method

This application was carried out in accordance with Belzona Know-How System Leaflet TCC-3. First, the bottom of the flotation cell was washed and the ore residue removed, the surface was prepared with an electric grinder, and the area to be coated was cleaned. After that, the areas with severe wear were repaired with a layer of Belzona 1812, approximately 3 mm thick, to store the thickness of the surface. Then, Belzona 1311 was applied on the remaining worn areas of the bottom of the flotation cell. Finally, the entire bottom area of the flotation cell was coated with Belzona 1321.

## Belzona Facts

The repair and coating of the bottom of the flotation cell with Belzona technology were performed in a short amount of time and

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)

  
**BELZONA®**  
Repair • Protect • Improve

with few employees, which allowed a quick return to operation. Additionally, it increased the working life of the equipment and protected it against corrosion and abrasion from the copper pulp. After 6 hours of the application, the equipment was returned to service.

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)

