

BELZONA REPAIRS AND PROTECTS THE LINING OF FLOTATION CELLS

CUSTOMER

Mining Plant, Brazil

APPLICATION DATE

October, 2009

APPLICATION SITUATION

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

PROBLEM

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

PRODUCTS

Belzona 1311 (Ceramic R Metal)

Belzona 1321 (Ceramic S Metal)

Belzona 1812 (Ceramic Carbide)

SUBSTRATE

Carbon steel

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 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.

PICTURES

1. Bottom of the flotation cell showing corrosion areas
2. Holes repaired with Belzona 1812
3. Holes repaired with Belzona 1311
4. Bottom of the flotation cell coated with Belzona 1321



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