

# BELZONA REPAIRS DISCHARGE PIPES OF A CYCLONE FEED SUMP

ID: 5532

Industry: Mining & Quarrying

Customer Location: Mine, Bolivia

Application: FPA-Floor Problem Areas

Application Date: February 21, 2011

Substrate: Concrete and Carbon Steel

Products: \* Belzona 4111 (Magma-Quartz) ,  
\* Belzona 4151 (Magma-Quartz Resin) ,  
\* Belzona 1812 (Ceramic Carbide) ,

## Problem

Damage of concrete. Loosening of the discharge pipes of the cyclone feed sump, caused by impact. Wear in the interior of the ducts, due to ore abrasion.



## Photograph Descriptions

- \* Preparation of the surface ,
- \* Injection of the Belzona 4151 to fill the space between the wall and the pipe ,
- \* Repair of damaged concrete with Belzona 4111 ,
- \* Belzona 1812 coating to protect against wear caused by abrasion. ,

## Application Situation

The discharge pipes of the cyclone feed sump were loosened from the Concrete Wall due to impact and wear in the metallic structure caused by abrasion.

## Application Method

The application was carried out in accordance with Belzona Know-How System Leaflet FPA-10 for fastening the pipe to the cyclone feed sump wall, injecting Belzona 4151 and FPA-1 for rebuilding the concrete wall with Belzona 4111. SHM-8 for coating the interior and exterior of the pipe to protect against wear caused by abrasion.

## Belzona Facts

The Belzona System allowed for the repair to be carried out during the plant shutdown, saving time and money while undergoing

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ISO 9001:2015

Belzona products are

FS 695214

manufactured under an ISO

ISO 14001:2015

9000 Registered Quality

EMS 695213

Management System.

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maintenance. These pipes transport 1,400 tons of ore each day. To date, the pipe is perfectly adhered to the concrete. Belzona 1812 needs to be applied only to the bottom part of the pipe, since this is a sacrificial product.

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