

# BELZONA REPAIRS DISCHARGE PIPES OF A CYCLONE FEED SUMP

ID: 5532

Industry: Mining & Quarrying

Application: FPA-Floor Problem Areas

Substrate: Concrete and Carbon Steel

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

Customer Location: Mine, Bolivia

Application Date: February 21, 2011

## 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

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.

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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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