

# BELZONA RESTORES PROFILE OF BALL MILL

ID: 2970

Industry: Cement

Application: SHM-Solids Handling Machinery

Customer Location: Cement plant, Bulgaria

Application Date: November, 2011

Substrate: Mild Steel

Products:   
\* Belzona® 4111 (Magma Quartz) ,  
\* Belzona® 1812 (Ceramic Carbide FP) ,  
\* Belzona® 1121 (Super XL-Metal) ,

## Problem

Severe wear particularly on the front wall and feed tube into the main shell.



## Photograph Descriptions

- \* View of severe abrasion damages were clearly evident after dismantling the tiles and blasting the surface ,
- \* Application in progress ,
- \* Completed application of the front wall ,
- \* Additionally application of Belzona® 4111 system to restore the profile of the shell ,

## Application Situation

Ball Mill for grinding limestone in cement production

## Application Method

Application was carried out in accordance with modified version of the Belzona Know-How System Leaflet SHM-7. Belzona® 4111 was applied around connecting bolts on the front wall and the shell. Belzona® 1812 was used to restore profiles lost through severe erosion. Belzona® 1121 was used for smoothing the areas with small pitting and erosion damages. These applications were carried out before re-fitting the wear resistant tile lining.

## Belzona Facts

Based on the previously performed successful repair in 2008 to a similar ball mill shell the customer required to use again Belzona

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  
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products to restore the whole profile of the front wall and shell body before installation of the new protective tiles. The alternative conventional welding or metal spray methods were rejected as being too expensive and incapable of providing the longevity required. Belzona solution was considered to be reliable and the optimum time and money saving approach.

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