

Belzona repairs a raw mill in a cement industry

ID: 7986

Industry: Mining & Quarrying
Application: SHM-Solids Handling Machinery

Customer Location: Ireland
Application Date: 2014

Substrate: Mild Steel
Products: * Belzona 1111 (Super Metal) ,

Problem

There are three rollers per mill and there are 12 wear plates (1200kg each) per roller. The clamps are fixed with 4 large bolts. There was play between the wear plate and the roller and the bolts and clamps were failing, leading to a forced stoppage of the mill.



Photograph Descriptions

- * 1- Before application ,
- * 2- After surface preparation ,
- * 3- After application of Belzona 1111 ,
- * 4- Final application ,

Application Situation

Wear plates on rollers

Application Method

The application was done in accordance with Belzona System Leaflet SHM-8. Two wear plates were removed from the roller at a time and the area on the roller was grit blasted. The back of the new wear plate was also grit blasted and Belzona 1111 was applied to the roller in a layer of approximately 2cm thick in the position corresponding to one wear plate. The wear plate was then fitted onto the wet Belzona 1111 to create a perfect seat. The process was repeated until 12 wear plates had been installed.

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
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Belzona Facts

Belzona 1111 was chosen by the customer here because it has the required properties for this specific application (high compressive strength, workability, etc) This application has been 100% successful since 2014. This job is repeated annually when the wear plates are being replaced. The quantity of material for 1 roller is 12 x 2kg or 36 x 2kg of Belzona 1111 per mill. There are 2 mills in this factory (raw mill and cement mill) which are very similar.

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