

BELZONA REPAIRS THE BASE DRIVE OF A COKE MILL

ID: 4895

Industry: Mining & Quarrying
Application: FPA-Floor Problem Areas
Substrate: Concrete (base) and Steel (metal structure)
Products: * Belzona 4111 (Magma-Quartz) ,
* Belzona 4911 (Magma TX Conditioner) ,
* Belzona 4151 (Magma-Quartz Resin) ,

Customer Location: Aluminum Producer, MA, Brazil
Application Date: July 2006

Problem

The leveling grout of the mill's base drive was crushed, cracked and had loss of a section. Because of that, the equipment lost partial support area, which increased the pressure on the horizontal and vertical load anchors. Consequently, anchors sheared over time, which increased the vibration of the equipment.



Photograph Descriptions

- * Drive base crushed, cracked and with loss of a section ,
- * Application of Belzona 4911 on all the surface of the base ,
- * Base completely recovered with Belzona 4111 ,
- * Application of Belzona 4111 and Belzona 4151 by injection ,

Application Situation

Base drive of the ball mill

Application Method

This application was carried out based on the Belzona Know How System Leaflets FPA-10 and FPA-1. First, all existing grouting was removed. The base surface was prepared with industrial sander and, after cleaning, conditioned with Belzona 4911 and Belzona 4111 was applied. After preparation, the metal structure was installed on the base and leveled with shims and anchor bolts. Application of Belzona 4111 and Belzona 4151 followed by injection. Operation conditions: temperature 30 to 40°C – Dry Service.

Belzona Facts

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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BELZONA[®]
Repair • Protect • Improve

Belzona System allowed quick repair with the minimum downtime and avoided expensive structural reconstructions. Repair took 9 hours to complete. Vibration reduction: before application 19.69 mm/s, after application 1.98 mm/s.

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