

BELZONA RECOVERS BALL MILL'S BASE

ID: 4894

Industry: Buildings & Structures

Customer Location: Aluminum Producer, MA, Brazil

Application: FPA-Floor Problem Areas

Application Date: August 2005

Substrate: Concrete (base) and carbon steel (support of anchor bolts)

Products: * Belzona 4111 (Magma-Quartz),
* Belzona 4151 (Magma-Quartz Resin),
* Belzona 4911 (Magma TX-Conditioner),

Problem

In an inspection conducted by the producer, it was found that there was a very high vibration caused by excessive gap at the base of the ball mill engine and gearbox. It was necessary to provide an effective solution for the situation not to worsen over time.



Photograph Descriptions

- * Mill's base before product application ,
- * Application of Belzona 4911 conditioner ,
- * Product application by injection ,
- * Base after application of Belzona 4111/4151 ,

Application Situation

Ball mill engine and gearbox base

Application Method

This application was carried out based on Belzona Know-How System Leaflets FPA-10 and FPA-1. Surface was prepared through mechanical scarification. After cleaning, the surface was conditioned with Belzona 4911. After that, Belzona 4111 and Belzona 4151 were applied by injection technique. These products have excellent adhesion, vibration and compression resistance and are superior to conventional concrete in order to minimize the effects of wear (gaps) at the base of anchor bolts.

Belzona Facts

Following data was found through vibration analysis: Before application – average vibration of 10.57 mm/s². After application –

For more examples of Belzona Know - How In Action, please visit <https://khia.belzona.com>

ISO 9001:2015

Belzona products are

Q 09335

manufactured under an ISO

ISO 14001:2015

9000 Registered Quality

EMS 509612

Management System.

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average vibration of 3.38 mm/s². Based on that, it was concluded that Belzona's technology reduced the vibration effects on the equipment by 1/3.

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