

Belzona helps to repair VRM crusher bearing housing

ID: 9632

Industry: Cement
Application: ENC-Engines and Casings
Substrate: Cast Iron
Products: Belzona 1121 (Super XL-Metal), Belzona 9411 (Release Agent)

Customer Location: Al Hfouf Plant
Application Date: January 2023

Problem

Excessive vibrations in the VRM crusher led to damage in the bearing housing, resulting in wear between the housing and the bearing. This wear ultimately caused bearing failure, leading to the shutdown of the crusher.



Bottom side of the bearing housing before the repair of Belzona

Bearing housing suffered wear and metal loss

VRM crusher bearing housing in operation

Belzona 1121 (Super XL-Metal) repairs the crusher bearing housing

Application Situation

The bearing alone costs \$20,000, and its failure resulted in significant losses due to the halted VRM crushing operation. Ordering a new housing and bearing would have taken months, further exacerbating the financial impact. However, Belzona was able to rebuild the damaged components for a fraction of the cost—just a few thousand dollars—restoring the VRM to operation within three days.

Application Method

Using Belzona release agent and Belzona 1121, the old bearing was utilized as a former to restore the damaged/worn area to its original profile. Surface preparation was carried out using power tools to achieve the minimum profile recommended by 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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Belzona Facts

There was no viable alternative to this solution, as ordering new spare parts would have been time-consuming and costly. By using Belzona, we saved the customer approximately \$50,000 in replacement costs and losses, all for less than 10% of that amount."

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