

Belzona Shaft Repair at Cement Plant

ID: 8058

Industry: Mining & Quarrying
Application: MPT-Mechanical Power Transmission

Customer Location: Cement Plant, Yorkshire, UK
Application Date: September 2017

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

Problem

Heavy wear had occurred and required repairing before potential equipment failure.



Photograph Descriptions

- * Worn shaft prior to Belzona repair ,
- * Surface preparation carried out and the former in place on the shaft ,
- * Former clamped in position and filled with Belzona 1111 ,
- * Former removed revealing fully cured Belzona 1111 prior to dressing down ,

Application Situation

Worn 90mm diameter shaft

Application Method

The application was carried out in accordance with Belzona Know-How System Leaflet MPT-2. After thorough surface preparation, the Belzona 1111 was applied by brush to the repair area. A pre-made split former was positioned over the repair area with a clamp. All excess material was removed and the repair was left to fully cure before removal of the former.

Belzona Facts

The client selected this simple Belzona repair solution for two reasons. Firstly, because the application could be completed quickly over a weekend ensuring there was no loss of production and minimum disruption to plant operation. The alternative would be a complete replacement which would have resulted in 3 days of downtime. Secondly, a single unit of Belzona 1111 was used along

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FS 695214
ISO 14001:2015
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with a forming tool to complete this repair at a fraction of the price of replacement. Saving the client £1000's in repair costs. Almost two years on, the shaft is still in service and the client is extremely happy with the outcome.

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