

# In-Situ Belzona Shaft Repair at Cement Plant

ID: 8057

Industry: Mining & Quarrying

Application: MPT-Mechanical Power Transmission

Customer Location: Cement Plant, Yorkshire, UK

Application Date: April 2017

Substrate: Steel

Products: \* Belzona 1111 (Super Metal) ,

## Problem

Heavy wear of the shaft on the cement screw element had occurred and required repairing before potential equipment failure.



## Photograph Descriptions

- \* Worn shaft ,
- \* Shaft area prepared for application ,
- \* Former clamped in position after Belzona 1111 application ,
- \* Former removed revealing fully cured Belzona 1111 repair ,

## Application Situation

Worn cement screw shaft 1 1/2" diameter

## 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 plant operates 5 days a week offering minimal opportunities for maintenance. Replacement of the shaft would have taken at least 3 working days and would have required additional labour and equipment costs, not to mention implications involving health and safety. Belzona was able to offer a repair application over the weekend using under £100 worth of material; saving the client £1000's in equipment replacement costs. This quick response from Belzona ensured there was no loss of production or disruption, allowing the client to continue manufacture on the Monday morning.

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

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manufactured under an ISO  
9000 Registered Quality  
Management System.

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2 years on, the shaft is still in service and showing no signs of degradation.

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