Know-How*in Action*

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# BELZONA REPAIRS VERTICAL SHAFT IN-SITU

## CUSTOMER
Food Production Site, England, UK

## APPLICATION DATE
October 2017

## APPLICATION SITUATION
A D.T. Machine has a shaft that stands vertically between two floors, the vertical shaft which runs between the electric motor and the rotating element had deteriorated badly, due to erosion, causing a loss of product coming through he stuffing box area.

## PROBLEM
The damage caused to the shaft was causing product to fall onto the workshop floor causing a safety risk, but more importantly causing a loss in revenue due to product dropping through the eroded shaft packing area onto the floor. The client required a solution to repair in-situ without the need to remove the equipment and dismantle the shaft, and machine in a workshop.

## PRODUCTS
Belzona 1511 (Super HT-Metal)

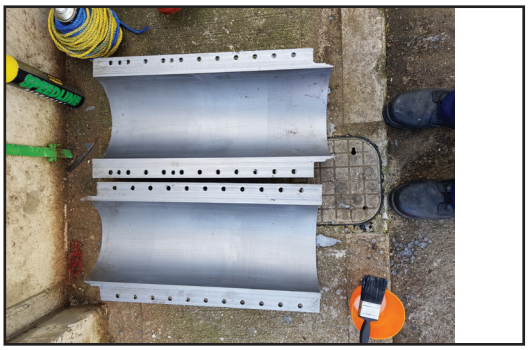
## SUBSTRATE
Hardened carbon steel shaft

## APPLICATION METHOD
The application was carried out in accordance with a modified version of Belzona Know-How System leaflet FBC-13, a former had been pre-machined, coated with release agent. The surface of the shaft was prepared using grit blasting. Belzona 1511 was applied to the former and shaft, the shaft was aligned in position and tightened and left to cure. The next day the former was removed and the edges machined back, once this was completed, a force cure was used to further increase the temperature resistance of the Belona 1511.

## BELZONA FACTS
The in-situ application saved the customer over £20,000 in shut down costs and the complications involved with replacing the shaft. Belzona 1511 has good resistance to the operating conditions and will prolong the life of this shaft.

## PICTURES
1. Shows severely damaged vertical shaft
2. Pre-machined formers
3. The product applied to the shaft with the former
4. Completed application

1.


2.


3.


4.




ISO 9001:2008
Q 09335
ISO 14001:2004
EMS 509612

Belzona products are manufactured under an ISO 9000 Registered Quality Management System.