

BELZONA REPAIRS VERTICAL SHAFT IN-SITU

ID: 7623

Industry: Food & Drink
Application: FBC-Fans, Blowers and Compressors

Customer Location: Food Production Site, England, UK
Application Date: October 2017

Substrate: Hardened Carbon Steel Shaft
Products: * Belzona 1511 (Super HT-Metal),

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.



Photograph Descriptions

- * 1. Shows Severely damaged vertical shaft ,
- * 2. Pre-Machined formers ,
- * 3. The product applied to the shaft with the former ,
- * 4. Completed Application ,

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 the stuffing box area.

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 Belzona 1511.

Belzona Facts

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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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.

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