

BELZONA SHAFT REPAIR KEEPS THE CONVEYORS TURNING

CUSTOMER

Tennessee, USA

APPLICATION DATE

August 2016

APPLICATION SITUATION

A snack manufacturer was looking for a way to repair shafts rather than constantly replacing components.

PROBLEM

A bearing had overheated and seized resulting in a worn area on the shaft.

PRODUCTS

Belzona 1111 (Super Metal)

Belzona 9111 (Cleaner/Degreaser)

SUBSTRATE

Carbon Steel

APPLICATION METHOD

Application was carried out in accordance with Belzona System Leaflet MPT-1. Shaft was placed in a lathe and the damaged area was undercut and grooved to aid in mechanical bonding. Final cleaning was done using Belzona 9111 (Cleaner/Degreaser). Belzona 1111 was built up on the shaft, taking care to press it firmly into the grooves and avoid air entrapment. After approximately 90 minutes the shaft was turned on the lathe back to its original outer diameter and polished with emery cloth to create a perfect fit with a new bearing.

BELZONA FACTS

The manufacturer uses dozens of these shafts in their conveyor system and this is a recurring problem. They had previously been replacing each shaft at a cost of \$300 each. The Belzona solution will allow for up to a dozen repairs using a single 1 KG unit of Belzona 1111 and a savings of approximately \$250 per repair which will add up to thousands of dollars in savings annually.

PICTURES

1. Shaft undercut and grooved in preparation for application
2. Belzona 1111 build up completed
3. Turning shaft back to original outer diameter
4. Application completed and perfectly fit to a new bearing



1.



2.



3.



4.

For more examples of *Belzona Know-How In Action*, please visit <http://khia.belzona.com>



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