

BELZONA SHAFT REPAIR BY FORMING TECHNIQUE AT A PAPER MILL

CUSTOMER

Paper Mill, LA, USA

APPLICATION DATE

September, 2018

APPLICATION SITUATION

Shaft on a vacuum pump at a paper mill.

PROBLEM

Bearings spun on shaft taking with it an estimated .080 or 80 thousandths from the shaft.

PRODUCTS

Belzona 1111 (Super Metal)

Belzona 9111 (Cleaner/Degreaser)

Belzona 9411 (Release Agent)

SUBSTRATE

Stainless steel

APPLICATION METHOD

This application was carried out in accordance with a modified version of Belzona Know-How System Leaflet MPT-2 (Shaft Repair by Forming Technique). The area was prepared by using a small disk grinder which was used to cut grooves into the shaft then was roughened by using a bur bit. The shaft was thoroughly cleaned using Belzona 9111. Belzona 9411 was placed on the former and on the shaft where product was not wanted. Belzona 1111 was placed on the shaft and on the former and squeezed together. After a few hours the former was removed and the shaft was dressed up making sure to remove any unwanted Belzona 1111.

BELZONA FACTS

Every hour this machine was down, it cost the company \$15,000. A new rotating assembly runs roughly \$150,000 and the alternative repair method was an estimated two weeks lead time. We only had 12 hours to complete the job. Belzona job was finished in just 4 hours with the help from heat lamps.

PICTURES

1. Former that was made and used.
2. Damaged shaft.
3. Shaft prepared/surface roughened up.
4. Finished application.



1.



2.



3.



4.

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



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