

Belzona 1111 fixing a scored shaft

ID: 10367

Industry: Pulp & Paper
Application: MPT-Mechanical Power Transmission

Customer Location: Eastern Oklahoma
Application Date: September 2026

Substrate: Carbon steel
Products: Belzona 1111 (Super Metal), Belzona 9411 (Release Agent)

Problem

Minor scoring on the shaft in the bearing area. The roller had been rebuilt, and the customer wanted to repair the shaft before reinstalling without causing any further delays. Damaged shafts are a common problem, so this application also served as a training for the in-house maintenance team. The former that was used was made in-house and can be used on other shafts as well.



Original condition of the shaft.



Shaft are prepped using a hand grinder.



Customer made former in place with the Belzona 1111.



Former removed and the Belzona 1111 refined to the proper profile.

Application Situation

The TND roller had been completely rebuilt and refurbished and was ready to reinstall. The shaft had been overlooked and they needed a fast and reliable repair option. The overall application took 4 hours from start to finish and was left overnight to cure and was ready for installation the following day without any further delays.

Application Method

A hand grinder was used to prep and roughen the surface, solvent was used to wash the contaminants away, and a heat gun was used for roughly 20 minutes to ensure the material was set in order to remove the former. Emery cloth was used to machine the application to the desired profile.

Belzona Facts

This repair used about \$75 USD of Belzona 1111 and saved several thousands in shipping and repair costs. It was done on-site with in-house people and was used as a training so future applications can be done as needed.

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FS 695214
ISO 14001:2015
EMS 695213

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