

BELZONA REPAIRED DAMAGED MIXER AGITATOR DRIVESHAFT AND KEYWAYS

ID: 659

Industry: Food & Drink
Application: MPT-Mechanical Power Transmission

Customer Location: Missouri, USA
Application Date: November 2005

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

Problem

Acid damaged shaft lost 1/2" on the diameter, keyway and key were destroyed. Socket keyway was minimally damaged, but needed to be tightened up. Obsolete drive was built in 1965 and the MFG has been sold twice. Therefore, no parts or prints are available. Mixer shut down. It was imperative that it would be operated in only two days.



Photograph Descriptions

- * 1. Mixing tank ,
- * 2. Damaged drive shaft ,
- * 3. Agitator socket ,
- * 4. Ready for assembly ,

Application Situation

Mixer agitator driveshaft and keyways

Application Method

The application was carried accordance to the modified version of Belzona Know-How leaflet system MPT-2. Belzona 1111 was used

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ISO 9001:2015
FS 695214
ISO 14001:2015
EMS 695213

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to build up the shaft diameter and also applied inside the socket and around the new key to fill the keyways. While still wet, the shaft was carefully dropped into the agitator socket keeping the key tight in both keyways.

Belzona Facts

The only alternative was to strip the drive and have a new shaft made from the damaged one, which would involve shutting the production line down for 7-10 days. A replacement complete drive unit (if it could be found) would still have required the production line to be shut down until it was delivered and installed. Following the quick Belzona application, equipment was started up on time and was operating perfectly.

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