

Belzona Impeller Repair

ID: 8086

Industry: Fluid Flow
Application: CEP-Centrifugal Pumps
Substrate: Steel
Products: * Belzona 1311 (Ceramic R-Metal) ,
* Belzona 4311 (Magma CR1) ,
* Belzona 9111 (Cleaner Degreaser) ,

Customer Location: Wrexham, United Kingdom
Application Date: February 2019

Problem

The pump and impeller were corroded due to contact with sulfuric acid at approximately 20% concentration, caused by back feed into the system, with the primary contact of waste or rinse water.



Photograph Descriptions

- * Damaged impeller with corrosion after being exposed to sulfuric acid and water. ,
- * Impeller profile restored using Belzona 1311 (Ceramic R-Metal). ,
- * Belzona 4311 (Magma CR1) coated impeller. ,
- * Side-view of the finished coated and rebuild impeller. ,

Application Situation

Corroded pump impeller.

Application Method

Application carried out as per Belzona Know-How System Leaflets CEP-1 & CEP-3. Surface contamination was removed and degreased with Belzona 9111, then blasted the surface to achieve SA 2 ½. The impeller was then rebuilt to profile using Belzona 1311 and reinforcing materials. Two coats of Belzona 4311 was then applied to protect against further chemical attack.

Belzona Facts

Belzona was chosen to rebuild the impeller as a cost-effective and efficient option rather than replacement. Belzona also offers protection against any further corrosion with the coating. This application was carried out by Belzona, specialist applicators of

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

Belzona products are
manufactured under an ISO
9000 Registered Quality
Management System.

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Belzona in the UK. They were selected due to their extensive experience in these type of workshop applications.

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