

Belzona Protects Against Impeller Wear

ID: 9453

Industry: Water / Wastewater

Customer Location: Washington

Application: CEP-Centrifugal Pumps

Application Date: July 2015

Substrate: Carbon steel

Products: Belzona 1311 (Ceramic R-Metal), Belzona 1321 (Ceramic S-Metal)

Problem

This wastewater impeller was suffering from abrasive wear.



Showing some of the wear.



Belzona 1311 applied.



Applying the first coat of Belzona 1321.



First coat of Belzona 1321 complete.

Application Situation

This impeller was showing the early stages of abrasive wear from wastewater solids. The customer wanted to repair the damage, and protect it from further damage. For only a couple hundred USD, this impeller was protected and returned to service in two days.

Application Method

The impeller was grit blasted in the customers blasting booth and rinsed of with acetone solvent before applying the Belzona 1311. Once the Belzona 1311 was firm enough, the first coat of Belzona 1321 was applied, and after a couple hours (per the Instructions For Use) the customer applied the second coat of Belzona 1321.

Belzona Facts

The actual amount of material used on this repair was considerably small, and even with the two coats of wear resistant Belzona 1321, the investment in repairing, protecting, and improving this impeller was only a portion of the cost to replace it. A replacement impeller would not have come with a protective coating, and would have soon began developing the same wear and damage that this one was exhibiting. Plus, the lead time on ordering and receiving a new impeller would have been weeks instead

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

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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Repair • Protect • Improve

of two days.

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