

Refurbishment of Drinking Water Split Casing Pump

ID: 9628

Industry: Water / Wastewater

Customer Location: Saudi Arabia

Application: CEP-Centrifugal Pumps

Application Date: August 2024

Substrate: Cast Iron

Products: Belzona 1111 (Super Metal), Belzona 1341N (Supermetalglide)

Problem

Customer faced corrosion and erosion in the casing of drinking water pump and it was unusable before Belzona repair.



Pump condition before application



Close up of corrosion damage



Pump after rebuilding and coating



Another angle shot after application

Application Situation

The pump was out of service due to severe damage and the customer planned to replace it with a new pump costing over \$20,000. Belzona save the pump and put it back to service. The Belzona 1341N coating applied was also found to improve efficiency and reduce power consumption. The customer is already considering to coat all pumps.

Application Method

The application was carried out in accordance with Belzona Know-How System Leaflet CEP-01 and CEP-03.

For the surface preparation, the pump was blasting to remove all the rust and contamination from the surface, achieving a minimum profile of 75 microns and Near White Metal cleanliness.

Belzona Facts

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

Belzona solution saved the pump that was out of service and had to be replaced, already saving \$20,000. Without using special tools, Belzona filled pitting, repaired ring areas and impeller damage. The project costed only 30% of the original pump price.

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