

Axial Flow Pump Coating with Belzona

ID: 8435

Industry: Water / Wastewater

Application: CEP-Centrifugal Pumps

Substrate: Mild Steel

Products: * Belzona 1311 (Ceramic R Metal) Belzona 1341 (Supermetalgilde) ,

Customer Location: Water Authority, Scotland, UK

Application Date: July 2019

Problem

The diffuser vanes of the pump has suffered extensive damage from erosion. Due to the age of the pump spare parts were not available & a replacement diffuser would need to be fabricated from new (the cost would be approx. £40,000).



Photograph Descriptions

* Suction Bell Suction bell coated with Belzona 1341 Part coated with Belzona 1341 Part coated with Belzona 1341 ,

Application Situation

An axial flow pump was suffering from erosion & corrosion in service. The metal loss was affecting the flow characteristics & efficiency of the pump. A solution that protected the equipment from further damage & increased the pumping efficiency was required.

Application Method

The parts were grit blasted to SA2.5 & 75 microns. The diffuser vanes & other damaged parts were rebuilt using Belzona 1311 as per CEP-01. The area was then coated with Belzona 1341 as per CEP-03.

Belzona Facts

By utilising a Belzona solution the existing parts were not only repaired but also improved from an erosion resistance & efficiency stand point. The full axial flow pump repairs were completed for less than half the cost of purchasing a new diffuser (only one part of the full pump).

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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