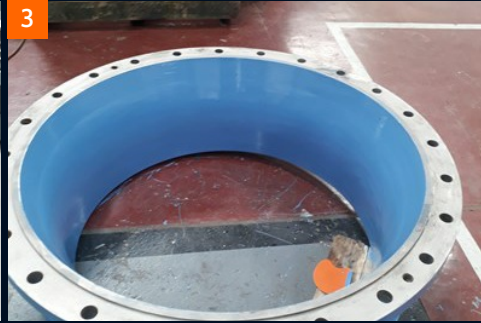


# AXIAL FLOW PUMP COATING WITH BELZONA

ID: 8435



## 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).

## 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).

## INDUSTRY

Water / Wastewater

## LOCATION

Water Authority, Scotland, UK

## APPLICATION DATE

July 2019

## PRODUCTS

Belzona 1311 (Ceramic R Metal) Belzona 1341 (Supermetalgilde)

## SUBSTRATE

Mild Steel

## PHOTOS

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

For more examples of Belzona Know-How in Action, please visit [khia.belzona.com](http://khia.belzona.com)

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