

# Belzona Rebuilds & Protects Pump Impeller

ID: 531

Industry: Water / Wastewater

Application: CEP-Centrifugal Pumps

Substrate: Cast Iron

Products: \* Belzona® 1111 (Super-Metal) ,  
\* Belzona® 1321 (Ceramic S-Metal) ,

Customer Location: Water Treatment Plant - UK

Application Date: February 2005

## Problem

*Impeller had moved on its shaft causing it to run against the casing. This resulted in severe abrasive wear and mechanical damage.*



## Photograph Descriptions

- \* Impeller on vertical borer prior to cleaning and refurbishment ,
- \* View of wear and mechanical damage. Wire framework was used to reinforce repair ,
- \* Application of Belzona® 1111 underway ,
- \* Completed impeller after application of final coats of Belzona® 1321 ,

## Application Situation

Impeller from effluent sewage pump.

## Application Method

Application was carried out in accordance with Belzona Know-How System Leaflets CEP-1 and CEP-3.

## Belzona Facts

Previously, impellers in this condition were not considered repairable resulting in delivery lead times to source a new part as well as the associated replacement costs. The repair using Belzona meant the part could be returned to service within 48 hours.

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

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manufactured under an ISO  
9000 Registered Quality  
Management System.

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