

# Belzona Rebuilds Grundfos Pump Impeller for the Wastewater Industry

ID: 8785

Industry: Water / Wastewater

Customer Location: Casablanca, Morocco

Application:

Application Date: October 2020

Substrate: Cast Iron

Products: \* Belzona 1311 (Ceramic R-Metal) Belzona 1812 (Ceramic Carbide FP) Belzona 1321 (Ceramic S-Metal) ,

## Problem

A Grundfos pump impeller had been severely damaged during normal service by erosion and corrosion.



## Photograph Descriptions

\* 1). Damaged pump impeller. 2). Pump impeller with leading edge armament. 3). Leading edge rebuilt using Belzona 1311. 4). Completed application with final coat of BZ1321. ,

## Application Situation

Pump impeller within a Wastewater Treatment Facility.

## Application Method

A thin sheet of metallic armament was attached to provide support and shape to the leading edge of the impeller. It was then rebuilt using Belzona 1311 and overcoated with Belzona 1812 to provide further abrasion resistance. Belzona 1321 was then applied over the whole impeller to provide not only erosion resistance but also a physical corrosion barrier. The application was carried out in accordance with Belzona System Leaflet CEP-01.

## Belzona Facts

The Distributor took the opportunity to conduct a trial with the Customer due to them scrapping the impeller and not believing that it could be repaired. Thanks to this and several other applications Belzona has now been approved for use following successful trials.

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ISO 9001:2015

Belzona products are

FS 695214

manufactured under an ISO

ISO 14001:2015

9000 Registered Quality

EMS 695213

Management System.

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