

# Belzona Protects 6 Pump Impellers Against Cavitation Damage

ID: 7878

Industry: Oil & Gas  
Application: CEP-Centrifugal Pumps  
Substrate: Steel  
Products: \* Belzona 1311 (Ceramic R-Metal) ,  
\* Belzona 1341 (Supermetalgilde) ,  
\* Belzona 2141 (ACR-Fluid Elastomer) ,

Customer Location: Saudi Arabia  
Application Date: 2018

## Problem

Impeller veins were experiencing cavitation which was reducing wall thickness and leading to through-wall defects.



## Photograph Descriptions

- \* 1. Damage beforehand ,
- \* 2. Application in progress ,
- \* 3. Completed pump ,

## Application Situation

6 Centrifugal Pump Impellers at an O&M company.

## Application Method

The application was carried out in accordance with a modified version of Belzona Know-How System Leaflet CEP-1, after thorough surface preparation and cleaning, the damaged parts of the impeller were rebuilt with Belzona 1311. Then Belzona 1341 was used to provide protection before Belzona 2141 was applied to protect from cavitation.

## Belzona Facts

This customer had previously been replacing the damaged impellers every 6 to 8 months. Upon hearing about the Belzona solutions

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ISO 9001:2015  
FS 695214  
ISO 14001:2015  
EMS 695213

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and seeing examples of it in action, they agreed to try this application instead of replacing the impeller every time.

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