

# BELZONA SAVES CAST IMPELLER FROM SCRAP

ID: 6423

Industry: General Industry  
Application: CEP-Centrifugal Pumps  
Substrate: Cast Iron  
Products: \* Belzona 1311 (Ceramic R-Metal) ,

Customer Location: Mechanical Workshop, Bulgaria  
Application Date: March, 2016

## Problem

Set of cracks on one side of the newly cast impeller. The end-user had refused to accept the impeller without elimination of the cracked area. After mutual agreement between the customer and end-user, they agreed that a Belzona solution could be used.



## Photograph Descriptions

- \* Impeller before application ,
- \* Mechanical grinding and machining of cracked area ,
- \* Masking of the repair area ,
- \* Completed application ,

## Application Situation

New cast iron impeller slurry pump

## Application Method

Application was carried out in accordance with Belzona Know-How System Leaflet CEP-6. All cracks were terminated, then Belzona 1311 was applied on the cracked area with reinforcement tape. More Belzona 1311 were added to restore the original profile of the impeller and give a smooth finish.

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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## Belzona Facts

The customer had no alternatives except to recast the defective impeller, costing a lot of money and time. The conventional repair by welding was not an option because of unpredictable effects. The customer and end-user had previous experience with Belzona for similar applications with reliable results.

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