

# BELZONA REBUILDS AND PROTECTS VANES

ID: 614

Industry: *Fluid Flow*  
Application: *CEP-Centrifugal Pumps*  
Substrate: *Cast iron*  
Products: *\* Belzona® 1311 (Ceramic R-Metal) ,*  
*\* Belzona® 1321 (Ceramic S-Metal) ,*

Customer Location: *Water plant, Egypt*  
Application Date: *February 2003*

## Problem

*Vanes of the impellers were severely cavitated.*



## Photograph Descriptions

- \* The cavitated vanes of the impeller ,
- \* Preparing to rebuild the lost edges ,
- \* Rebuilding the vanes ,
- \* Vanes rebuilt and coated ,

## Application Situation

Two water pump impellers

## Application Method

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

## Belzona Facts

Belzona rebuilt the cavitated vanes saving replacement cost of the impellers. It also provided resistance to cavitation by coating the vanes with Belzona® 1321. This application was repeated with other impellers later and the impellers are still in service.

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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