

# BELZONA CAVITATION RESISTANCE FOR IMPELLER

ID: 33

Industry: Oil & Gas  
Application: CEP-Centrifugal Pumps  
Substrate: Bronze  
Products: \* Belzona® 1311 (Ceramic R-Metal) ,  
\* Belzona® 1421 ,

Customer Location: Oil Refinery in Mississippi  
Application Date: August 1995

## Problem

Severe damage to the impeller caused by cavitation



## Photograph Descriptions

- \* Surface preparation&mdash;abrasive grit blasting in progress ,
- \* Cavitated areas of the impeller rebuilt with Belzona® 1311 ,
- \* Application of Belzona® 1421 complete, impeller ready for service ,

## Application Situation

40-inch impeller for cooling tower pump

## Application Method

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

## Belzona Facts

The customer saved a \$45,000 replacement cost for a new impeller.

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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