

# Repair Of Cavitation Damage on Impeller

ID: 8299

Industry: Fluid Flow  
Application: SOS-Ships and Offshore Structures

Customer Location: Shipyard, TURKEY  
Application Date: February 2020

Substrate: Bronze  
Products: \* Belzona 1111 (Super Metal) ,  
\* Belzona 1321 (Ceramic S-Metal) ,

## Problem

Due to cavitation damage of seawater, impeller has pitting damages on surface and blades causing low efficiency pumping.



## Photograph Descriptions

- \* Cavitation damaged surface ,
- \* After surface preparation ,
- \* Application of Belzona 1111 ,
- \* Application of Belzona 1321 ,

## Application Situation

Impeller of Seawater Pump

## Application Method

Application was carried out in accordance with Belzona Know-How System Leaflet SOS-01 and SOS-02. Application surface was prepared with SA2½ grit blasting in workshop. Surface the cleaned with Belzona 9111. Belzona 1111 was used to repair the damaged impeller surface. Belzona 1321 was applied on top of Belzona 1111 and impeller surface within overcoating window, without the need of additional surface preparation.

## Belzona Facts

Repair cost and time with Belzona is lower than conventioanl repair methods. Protection with Belzona coating improves the durability of the 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  
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