

# BELZONA KEEPS COOLING WATER PUMP RUNNING

ID: 664

**Industry:** Power  
**Application:** CEP-Centrifugal Pumps  
**Substrate:** Stainless steel  
**Products:** \* Belzona® 1311 (Ceramic & Metal) ,  
\* Belzona® 1321 (Ceramic S-Metal) ,

**Customer Location:** Coal power plant in Macedonia  
**Application Date:** September 1999

## Problem

*Cavitation-erosion damage on the impellers*



## Photograph Descriptions

- \* Eroded pump blades ,
- \* Filled pump blades with Belzona® 1311 ,
- \* Finishing with Belzona® 1321 ,

## Application Situation

Two cooling water pump impellers

## Application Method

Application was carried out in accordance with Belzona Know-How System Leaflets CEP-5 and CEP-7.

## Belzona Facts

Cavitation reduces thickness of the blades, increasing risk of their breaking. Belzona® 1311 rebuild restored impellor profiles. After applying of Belzona® 1321, the power consumption decreased and the flow increased. Replacing the pump costs about 50.000,00 EUR and it takes 60 days. This application had been done twice on two impellers.

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

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manufactured under an ISO  
9000 Registered Quality  
Management System.

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