

# Internal refection of a centrifugal pump using Belzona

ID: 7873

Industry: Fluid Flow  
Application: CEP-Centrifugal Pumps  
Substrate: Cast Iron  
Products: \* Belzona 1111 (Super Metal) ,  
\* Belzona 1311 (Ceramic R-Metal) ,  
\* Belzona 1811 (Ceramic Carbide) ,  
\* Belzona 1341 (Supermetalgilde) ,

Customer Location: France  
Application Date: March 2014

## Problem

The inside of this pump was badly damaged by entrained solids as it pumps river water. The high speed of the fluid also accelerated the deterioration.



## Photograph Descriptions

- \* 1- Overview of the equipment ,
- \* 2- Zoom on the main defect on the discharge outlet ,
- \* 3- Reinforcement with the metallic net ,
- \* 4- Final application ,

## Application Situation

Inside of a centrifugal pump

## Application Method

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  
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The application was carried out in accordance with an adapted version of Belzona Know How System Leaflet CEP-5.

The substrate was first prepared by grit blasting, then Belzona 1111 was used to rebuild the concentric area. It was then machined to get the right tolerances. The discharge outlet was rebuilt from the outside using a metallic mesh and Belzona 1311 and protected with Belzona 1811. Finally the inside of the pump was protected with Belzona 1341.

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