# Internal refection of a centrifugal pump using Belzona

ID: 7873

Industry: Fluid Flow Customer Location: France
Application: CEP-Centrifugal Pumps Application Date: March 2014

Substrate: Cast Iron

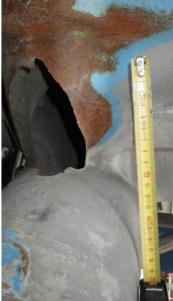
Products: \* Belzona 1111 (Super Metal),

\* Belzona 1311 (Ceramic R-Metal), \* Belzona 1811 (Ceramic Carbide), \* Belzona 1341 (Supermetalglide),

#### 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

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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.

