

INTERNAL REFECTION OF A CENTRIFUGAL PUMP USING BELZONA

ID: 7873



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.

APPLICATION SITUATION

Inside of a centrifugal pump

APPLICATION METHOD

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.

BELZONA FACTS

INDUSTRY

Fluid Flow

LOCATION

France

APPLICATION DATE

March 2014

PRODUCTS

Belzona 1111 (Super Metal)
Belzona 1311 (Ceramic R-Metal)
Belzona 1811 (Ceramic Carbide)
Belzona 1341 (Supermetalgilde)

SUBSTRATE

Cast Iron

PHOTOS

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

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