Turbine impeller protected using Belzona.

ID: 9610

Industry: Water / Wastewater Customer Location: Slovakia Application: **CEP-Centrifugal Pumps** Application Date: May 2024

Substrate: Cast Iron

Products: Belzona 1311 (Ceramic R-Metal), Belzona 2141 (ACR-Fluid Elastomer), Belzona 2941 (Elastomer SP-Conditioner)

Problem

The turbine was damaged by the erosion-corrosion process.







Filling damaged blades with R-Metal).



Application of Belzona 2141 (ACR-Fluid Elastomer)

Application Situation

The impeller was painted about 5 years ago with a material from a competing company, which was damaged. The customer applied the material himself. Now he was looking for a better solution.

Application Method

Surface blasting. Filling damaged blades with Belzona 1311 (Ceramic R-Metal). Surface blasting. Application of Belzona 2941 (Elastomer SP-Conditioner). Application of Belzona 2141 (ACR-Fluid Elastomer).

Belzona Facts

The customer was provided with 2 price offers: a cheaper one with the Belzona 1341 (Supermetalguide) material or a more expensive one with the Belzona 2141 (ACR-Fluid Elastomer) material. Based on our experience with the Francis turbine (Belzona 2141 (ACR-Fluid Elastomer)), the customer chose the more expensive option.