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.

Damaged paint from a competing paint manufacturer.

Filling damaged blades with Belzona 1311 (Ceramic 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.