

# Repair of wear and through wall defect on Volute of Pumps and Protection of Pumps from further corrosion

ID: 9340

Industry: Water / Wastewater

Customer Location: Ontario, Canada

Application: CEP-Centrifugal Pumps

Application Date: June 2023

Substrate: Cast Iron

Products: Belzona 1111 (Super Metal), Belzona 1321 (Ceramic S-Metal)

## Problem

Through wall defect and wear in pump caused by sewage and particles in wastewater was to be repaired and lined with intention of getting more lives out of the pumps.



First pump with through wall after grit blasting.

Second pump with wear after blasting

After rebuilding wear on pump with Belzona 1111.

First pump after plate bonding with Belzona 1111 and both pumps lined with Belzona 1321.

## Application Situation

Pumps were badly worn due to particles in sewage and wastewater. Therefore, customer needed to not only repair but protect pumps from future occurrence.

## Application Method

Pumps were grit blasted to SSPC SP10. First pump was rebuilt, hole repaired using a metal plate and entire interior covered with Belzona 1111. Wear on inside of pump 2 also rebuilt using Belzona 1111. Afterwards, two coats of Belzona 1321 were applied to both pumps.

## Belzona Facts

Timely intervention and quick turnaround of Belzona repair as customer usually dispose pumps in such conditions. Belzona did not only save customer a lot of money but also enhance quick turnaround and improved longevity of refurbished pumps.

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