

# Belzona provides Internal pump refurbishment with ceramic coating system

ID: 9639

Industry: Chemical & Petrochemical

Customer Location: Saudi Arabia

Application: CEP-Centrifugal Pumps

Application Date: September 2023

Substrate: Stainless-steel

Products: Belzona 1311 (Ceramic R-Metal), Belzona 1321 (Ceramic S-Metal)

## Problem

The pump suffered severe erosion caused by high solid content in the fluid



Erosion evidence on pump component due to high solid content



Surface preparation on the pump before the application of Belzona system



Pump surface was rebuilt with Belzona 1311 (Ceramic R-Metal)



Once the surface was rebuilt, Belzona 1321 (Ceramic S-Metal) was applied to enhance protection and prevent further damage.

## Application Situation

The pump experienced severe erosion and extensive wear, resulting in a significant loss of efficiency.

## Application Method

1. Apply Belzona 1311 to rebuild the worn-out metal
2. Overcoat the rebuilt pump with Belzona 1321 (Ceramic S-Metal)

## Belzona Facts

The pump was taken out of service and considered beyond repair. However, with the expertise of the Belzona distributor, it was successfully restored and returned to operation with minimal downtime

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ISO 9001:2015

FS 695214

ISO 14001:2015

EMS 695213

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