

# Flue Gas Compressor Index Cover Repair and Coating with Belzona

ID: 10168

Industry: Food & Drink  
Application: PDP-Positive Displacement Pumps

Customer Location: Saudi Arabia  
Application Date: July 2025

Substrate: Cast Iron  
Products: Belzona 1391T, Belzona 1511 (Super HT-Metal)

## Problem

The pump cover had suffered severe erosion damage due to prolonged service conditions. As a result, the client classified the pump as scrap and placed it in the yard, assuming it was beyond economical repair.



Eroded pump cover

Surface preparation carried out by grit blasting

Surface rebuilt using Belzona 1511 (Super HT-Metal)

Pump cover coated with Belzona 1391T

## Application Situation

The erosion had reduced material thickness, adversely affected hydraulic profiles, and raised concerns regarding reliability and continued operation. The pump cover was repaired and coated at approximately 20% of the cost of a new pump.

## Application Method

The pump cover was grit blasted to remove corrosion and achieve the minimum required surface profile. The eroded areas were rebuilt using Belzona 1511 (Super HT-Metal). A two-coat system of Belzona 1391T was then applied to provide long-term protection against erosion and corrosion.

For more examples of Belzona Know - How In Action, please visit <https://khia.belzona.com>

ISO 9001:2015  
FS 695214  
ISO 14001:2015  
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Belzona products are  
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## Belzona Facts

This approach extends service life, reduces replacement costs, and minimizes downtime compared with purchasing new pumps.

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