

# Pump Casing Repaired with Belzona Materials

ID: 10180

Industry: Power  
Application: CEP-Centrifugal Pumps  
Substrate: Carbon steel  
Products: Belzona 1121 (Super XL-Metal), Belzona 1341 (Supermetalgilde)

Customer Location: Thailand  
Application Date: January 2020

## Problem

Corrosion and erosion damage were identified on the pump casing surface. The deteriorated condition of the pump component highlighted the need for repair to restore the pump's performance and to ensure the pump could be put back in service to continue operating efficiently. If left unaddressed, the client could face costs associated with replacing the pump component and extended downtime.



Severe damage on pump casing

Pump casing was prepared by using steel grit blasting until a minimum depth of 75 microns and Surface cleanliness by Swedish standard Sa 2.5 was achieved

The first coat of Belzona 1341 (Supermetalgilde) was applied on the prepared surface

Complete application on the pump casing

## Application Situation

The pump casing was delivered to the workshop together with the pump impeller for the repair.

Belzona 1341 (Supermetalgilde), fluid grade system for protecting immersed surfaces suffering from erosion-corrosion, was offered as a solution together with Belzona 1121 (Super XL-Metal), a paste-grade material with extended working life for repairing and rebuilding machinery and equipment.

## Application Method

1. Steel grit blasting was used to prepare the surface of the pump casing. A minimum depth of 75 microns and Surface cleanliness by Swedish standard Sa 2.5 is expected.
2. Use Methyl Ethyl Ketone (MEK) to clean the surface. All loose materials on the casing were removed.
3. Apply the first coat of Belzona 1341 (Supermetalgilde) at a dry film thickness of 250 microns
4. On the pitting damage areas, use Belzona 1121 (Super XL-Metal) to fill.
5. Apply the second layer of Belzona 1341 (Supermetalgilde)

## Belzona Facts

Instead of replacing the pump components, the asset owner can save on maintenance costs by using Belzona repair materials. Belzona 1341 (Supermetalgilde) is known for its hydrophobic technology to repel process fluids and reduce turbulent flow.

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ISO 9001:2015  
FS 695214  
ISO 14001:2015  
EMS 695213

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