

# Belzona Coats 2 x Pemo Pumps

ID: 8178

Industry: Fluid Flow

Customer Location: Switzerland

Application: CEP-Centrifugal Pumps

Application Date: January 2020

Substrate: Steel & Cast Iron

Products: \* Belzona 1111 (Super Metal) ,  
\* Belzona 1321 (Ceramic S-Metal) ,  
\* Belzona 1341 (Supermetalglide) ,  
\* Belzona 9111 (Degreaser) ,  
\* ,

## Problem

Due to the sand in the water, it damaged the pumps within a short time (6 months). As a result, the pumps were only giving an output pressure of 6 bar of 12 bar. The pumps lost power and the company's production slowed. By slowing down production, the customer made losses every day.



## Photograph Descriptions

- \* Pemo pumps in the service center. Additional blasting work to better inspect the pumps. Image ,
- \* After blasting, a mold was made for the re-profiling of the impellers with Belzona 1111. Additional construction of the housing passage with Belzona 1111. ,
- \* After re-profiling, the parts were turned to size on the lathe. ,
- \* In addition, the parts were coated with Belzona 1321 Grey and Belzona 1341 Blue. ,

## Application Situation

2-stage Pemo pump with heavy leaching.

## Application Method

All components of the Pemo Pumps were previously grit blasted according to SA 2½ / 75µ. After grit blasting, the components were immediately re-profiled with Belzona 1111 and Belzona 9341. This process was repeated several times to achieve the original size. After re-profiling, the parts were turned to the original size on the lathe. After the re-profiling was completed, the pumps would be coated with Belzona 1321 Grey and Belzona 1341 Blue. Application was carried out in accordance with Belzona Know-How system

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

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

Belzona products are  
manufactured under an ISO  
9000 Registered Quality  
Management System.

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## Belzona Facts

A quick solution with the Belzona products prevented a longer downtime of the system. By re-profiling the Pemo pumps, the system could be put into operation again after 2 weeks. Due to the longer delivery times for new parts from Italy (3 months), the customer decided to reprofile and coat the pumps. The customer saved approx 120,000 Swiss Francs (Approx £94,000 GBP)

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