

BELZONA COATS 2 X PEMO PUMPS

ID: 8178



2

4



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.

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 leaflet CEP-3

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)

INDUSTRY

Fluid Flow

LOCATION

Switzerland

APPLICATION DATE

January 2020

PRODUCTS

Belzona 1111 (Super Metal)
Belzona 1321 (Ceramic S-Metal)
Belzona 1341 (Supermetalgilde)
Belzona 9111 (Degreaser)

SUBSTRATE

Steel & Cast Iron

PHOTOS

1. Pemo pumps in the service center. Additional blasting work to better inspect the pumps. Image
2. 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.
3. After re-profiling, the parts were turned to size on the lathe.
4. In addition, the parts were coated with Belzona 1321 Grey and Belzona 1341 Blue.

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