

BELZONA COATS A HYDRO POWER PUMP SHAFT

CUSTOMER

Austria

APPLICATION DATE

May 2019

APPLICATION SITUATION

In the course of a general refurbishment and performance increase of the pump, a new impeller was installed which changed the profile. This required a change in the contour of the shaft, which is where Belzona was required. The areas of the shaft in contact with water were coated with Belzona 5811.

PROBLEM

Conditions during operation: Head: 760 m, Power: 195 MW, Speed: 600 rpm Flow rate: 30 m³/s. A slight increase in abrasion is to be expected within the new build.

PRODUCTS

Belzona 1311 (Ceramic R-Metal)

Belzona 1121 (XL-Metal)

Belzona 1321 (Ceramic S-Metal)

Belzona 5811 (Immersion Grade)

Belzona 9411 (Release Agent)

SUBSTRATE

Steel

APPLICATION METHOD

The application was completed in accordance with Belzona System Leaflet MPT-01 and CEP-03.

BELZONA FACTS

Due to the change in the contour of the shaft, Belzona were chosen due to its proven product ability to perform for this specific application.

PICTURES

1. Hydro Power Pump Shaft Positioned into place.
2. The contour was roughly built up in several layers with Belzona 1121.
3. The new contour after coating with the first of two layers of Belzona 1321.
4. Completed Application



1.



2.



3.



4.

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

ISO 9001:2008
Q 09335
ISO 14001:2004
EMS 509612

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