

Belzona Rebuild Eroded Spillway in the Hydropower Industry

ID: 8849

Industry: Power
Application: CEP-Centrifugal Pumps
Substrate: Cast Iron
Products: Belzona 1311 (Ceramic R-Metal),
Belzona 1151 (Smoothing Metal),
Belzona 1341 (Supermetalglide)

Customer Location: Bollène, France
Application Date: March 2022

Problem

The spillway at a hydroelectric power station had suffered from general erosion leading to a substrate loss of 15mm in over 24 different zones.



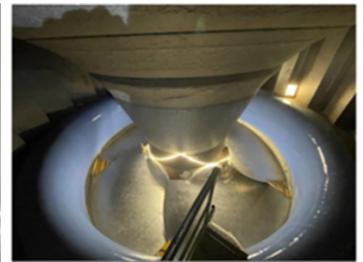
Original spillway condition.



Template to rebuild the substrate to its original profile.



Spillway being rebuilt to its original profile.



Completed application top coated with Belzona 1341.

Application Situation

Spillway within a Hydroelectric Power Station.

Application Method

The spillway was grit blasted to 75 microns and a cleanliness standard of SA2.5 prior to degreasing. Once surface preparation was completed, Belzona 1311 was applied to rebuild the severely eroded areas of the spillway, prior to being overcoated with Belzona 1151, used to smooth the spillway back to its original profile (using a jig). 2x Coats of Belzona 1341 were then applied to provide a physical barrier between the spillway substrate and the operating environment, providing better erosion resistance. The application was carried out in accordance with a modified version of Belzona System Leaflet CEP-05.

Belzona Facts

The Belzona solution was implemented in under 2 weeks and resolved the clients ongoing erosion issues by reducing its previous and future rate of wear.

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

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