

# Belzona Repairs Francis Turbine In Hydro-Power Plant

ID: 8760

Industry: Power  
Application: CEP-Centrifugal Pumps  
Substrate: Steel  
Products: \* Belzona 1341 (Supermetalgilde) ,

Customer Location: Portugal  
Application Date: 2021

## Problem

After years in service the Francis turbine has begun to corrode and erode.



## Photograph Descriptions

- \* 1.) Francis turbine prior to application, visibly damaged ,
- \* 2.) Francis turbine after grit blasting ,
- \* 3.) 1st coat of Belzona 1341 applied ,
- \* 4.) Final application ,

## Application Situation

Coating of 1 out of 3 Francis Turbines used to power a Hydro-electric plant located within a dam in Portugal.

## Application Method

This application was carried out in accordance with system leaflet CEP-03 and CEP-10. The Francis turbine arrived in the workshop with visible signs of corrosion, erosion and rust. The Francis turbine was cleaned and grit blasted to SA2.5, achieving a surface profile of 75 microns. After the cleaning & blasting process, 2 coats of Belzona 1341 were applied to the whole turbine.

## Belzona Facts

The customer had historically coated 1 of the 3 turbines with Belzona, and another turbine with a competitor coating system. After years in service, the client favoured the Belzona system as it was easy to apply and also make repairs when needed. The turbine coated with Belzona had been in service 9 years before remedial re-coat work was needed to be made. One year after the remedial work on turbine 2, this 3rd turbine operating within the hydro-electric plant was coated at the distributors workshop before being sent back to the plant to be put back in service.

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

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