

# FRANCIS TURBINE SHAFT PROTECTED WITH BELZONA

ID: 3431

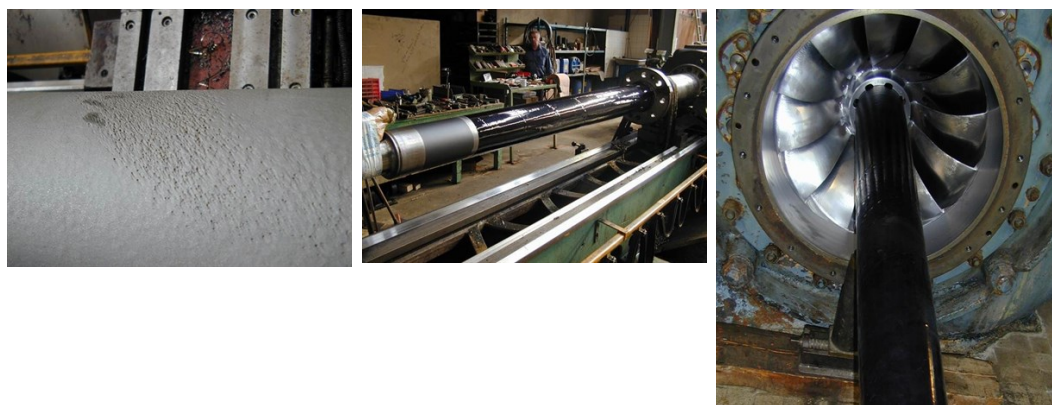
Industry: *Power*  
 Application: *MPT-Mechanical Power Transmission*

Customer Location: *Hydroelectric Power Station, France*  
 Application Date: *November 2006*

Substrate: *Steel*  
 Products: *\* Belzona® 1341 (Supermetaglide),*  
*\* Belzona® 2141 (ACR-Fluid Elastomer),*  
*\* Belzona® 2941 (Elastomer SP-Conditioner),*

## Problem

*Shaft damaged by cavitation and erosion*



## Photograph Descriptions

- \* Shaft damaged by cavitation/erosion ,
- \* Belzona® 2141 after the application ,
- \* Inspection of Belzona® 2141 protection of the turbine shaft after 9 months in service. ,

## Application Situation

Main shaft, 160 mm diameter, 1000 rpm.

## Application Method

After blasting the surface, Belzona® 1341 was applied in one coat. Belzona® 2941 conditioner was used to tie in the Belzona® 2141 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

The application was carried out on the shaft in a lathe and the finish was obtained by using a rubber squeegee. Inspection of the Belzona® 2141 in 2007 and 2010 showed the system still in perfect condition.

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