

FRANCIS TURBINE SHAFT PROTECTED WITH BELZONA

CUSTOMER

Hydroelectric Power Station, France

APPLICATION DATE

November 2006

APPLICATION SITUATION

Main shaft, 160 mm diameter, 1000 rpm.

PROBLEM

Shaft damaged by cavitation and erosion

PRODUCTS

Belzona® 1341 (Supermetaglide)

Belzona® 2141 (ACR-Fluid Elastomer)

Belzona® 2941 (Elastomer SP-Conditioner)

SUBSTRATE

Steel

APPLICATION METHOD

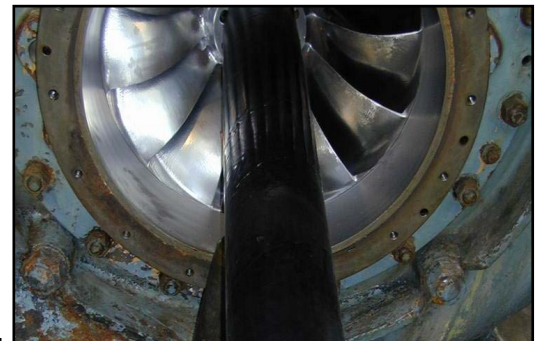
After blasting the surface, Belzona® 1341 was applied in one coat. Belzona® 2941 conditioner was used to tie in the Belzona® 2141 system.

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.

PICTURES

1. Shaft damaged by cavitation/erosion
2. Belzona® 2141 after the application
3. Inspection of Belzona® 2141 protection of the turbine shaft after 9 months in service.



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