

THORDON BEARING GLUED IN PLACE WITH BELZONA

CUSTOMER

Hydro power station, Sweden

APPLICATION DATE

November 2008

APPLICATION SITUATION

Replacement of one of the main turbine bearings.

PROBLEM

The original bearing was worn out and in need of replacement. The client was looking for effective solution to bond the bearing in place.

PRODUCTS

Belzona® 1321 (Ceramic S Metal)

SUBSTRATE

Cast iron

APPLICATION METHOD

Application was carried out using a modified version of Belzona Know-How System Leaflet SHM-7. After grit blasting the bearing housing, Belzona® 1321 was applied to the bearing housing and Thordon SXL bearing before clamping into place until cured. Finally, the bearing was machined down to the correct inner diameter.

BELZONA FACTS

Thordon have worked closely with Belzona to ensure technical support is available for such applications. The Belzona® 1321 was chosen as adhesive based on its excellent adhesion, electrical insulation properties and its total corrosion resistance even in harsh environments. Belzona® 1321 is a well established method for bonding Thordon bearings and this technique has been reviewed and approved by the customer who are very pleased with the results.

PICTURES

1. Dismantling the bearing housing on the turbine
2. The damaged bearing had disbonded from the bearing housing which resulted in a corroded surface
3. Thordon SXL bearing half mounted and glued with Belzona® 1321. Clamps are used to hold bearing in position



1.



2.



3.

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



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