

BELZONA 1331 REBUILDS TURBINE COVER IN THE HYDRO POWER INDUSTRY

CUSTOMER
Austria

APPLICATION DATE
Mar-21

APPLICATION SITUATION
An International Hydro Power client needed Belzona to rebuild an area of a turbine cover.

PROBLEM
The turbine cover became oval due to welding work on the outer circumference. The fits on the inside diameter also warped. Since these surfaces already had their finished diameter, they should be built up with Belzona and then machined to the finished size.

PRODUCTS
Belzona 1331

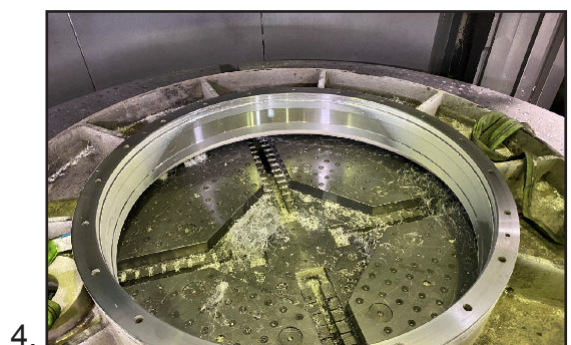
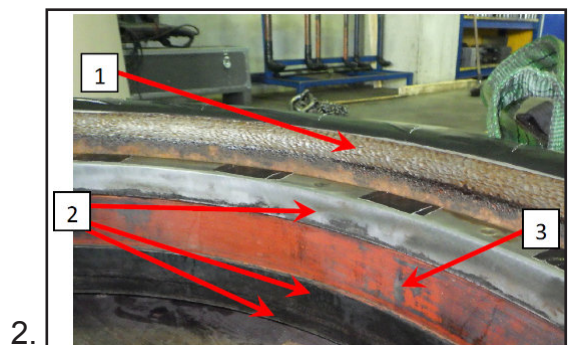
SUBSTRATE
Steel

APPLICATION METHOD
Blasted to 110 µm roughness according to Testex with blasting agent Sintox 0.2-1.4 and corundum F14 (mixed 2: 1) Cleaned and degreased surfaces
Build up the surfaces with the first layer of Belzona 1331 - target layer thickness 1000 µm Build up the mating surfaces with a second layer of Belzona 1331 after approx. 3 hours - target layer thickness 1000 µm Build up the mating surfaces with a third layer of Belzona 1331 after approx. 3 hours - target layer thickness 1000 µm in accordance with Belzona System Leaflet VPF_13

BELZONA FACTS
The client had already used welding as a procedure which had failed and became oval on the outer circumference.

PICTURES

1. Turbine Cover
2. Identifying the issues 1: Worn ring (traces of erosion from the water) 2: Mating surfaces were coated in 3 layers 3: The undercut was coated in a single layer
3. The lid after applying the first coat of Belzona 1331
4. Completed application after being machined.



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

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