BELZONA LEADING EDGE SOLUTION FOR WICKET GATES

ID: 3618

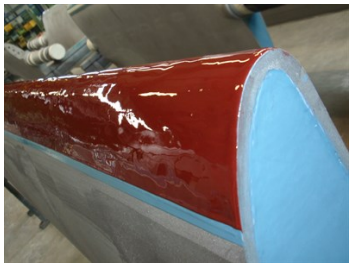
Industry: *Power*
Application: *CEP-Centrifugal Pumps*
Substrate: *Steel*
Products: ** Belzona® 1341 (Supermetalglide) ,*
** Belzona® 2121 (D&A Hi Coat Elastomer) ,*

Customer Location: *Turbine manufacturer, France.*
Application Date: *June 2009*

Problem

Due to the operating envrionment, wicket gates suffer from corrosion and abrasion on the leading edge, due to entrained solid particles in the water.






Photograph Descriptions

* View of the wicket gates after blasting ,
* Belzona® 1341 applied to offer erosion corrosion protection ,
* Belzona® 2121 applied to offer impact resistance ,
* View of the wicket gates completed ,

Application Situation

Wicket gates needing corrosion and abrasion protection

Application Method

Application was carried out in accordance with Belzona Know-How System Leaflet CEP-3. Belzona® 1341 was applied to offer resistance to erosion corrosion. As the leading edges are known to suffer from impact damage due to solids in the water, Belzona® 2121 was applied in two coats (red and black) to offer impact protection in these specific areas.

Belzona Facts

French hydro power stations have been using Belzona for erosion corrosion protection for many years. However, the coating was frequently chipped on the edges due to impact. By applying Belzona® 2121 on the edges, the protection is improved and this technique is now in general use in France. Note Belzona® 2141 is now used in place of Belzona® 2121 due to its easier application

characteristics.

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

Belzona products are manufactured under an ISO 9000 Registered Quality Management System.