

Belzona 1111 Fixes Pitting on a Wicket Gate

ID: 9456

Industry: Power
 Application: CEP-Centrifugal Pumps
 Substrate: Carbon steel
 Products: Belzona 1111 (Super Metal)

Customer Location: Washington
 Application Date: January 2017

Problem

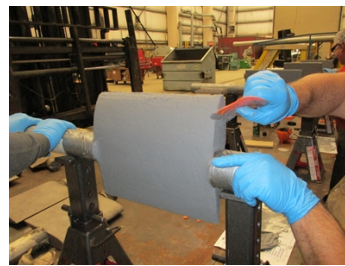
Full spread corrosion and erosion on the body of these wicket gates.



Pitting on the face.



Pitting on the end.



Applying the Belzona 1111.



Application completed on this wicket gate.

Application Situation

Heavy widespread pitting on all surfaces of these wicket gates needed to be repaired. Belzona 1111 was chosen for its ability to be mixed in smaller amounts as needed, its working life, and being 100% solids that would not shrink, and was 100% machinable once cured. The added bonus was no bad chemical smells which made for a pleasant application.

Application Method

The customer had a nice sand blasting booth on-site, and were able to use alumina oxide to achieve a 3-5 mil profile. Once blasted, they were washed with acetone, and the Belzona 1111 carefully was applied by hand leaving very little to be hand sanded once it had cured.

Belzona Facts

Welding had been their previous solution, but they chose to use Belzona 1111 because of a faster return to service, and no unnecessary heat stress would occur. All 12 wicket gates were rebuilt, and sanded smooth in one day allowing for the finish coat to be applied the following day. Welding would have taken over a week. Prior to involving Belzona, a coating had already been purchased to coat the gates with. Inspection one year later showed some wear on the coating, but no wear on the Belzona 1111.

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

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