

BELZONA WITHSTANDS PROLONGED WET ABRASION

ID: 5989

Industry: Pulp & Paper
Application: CEP-Centrifugal Pumps
Substrate: Carbon Steel
Products: * Belzona 5811 (Immersion Grade) ,
 * Belzona 1321 (Ceramic S-Metal) ,
 * Belzona 1311 (Ceramic R-Metal) ,

Customer Location: Paper Mill, Turin, Italy
Application Date: July 2012

Problem

Due to severe abrasion and corrosion, the components' lifetime was very short. Pump and its components had to be replaced every 2/3 years.



Photograph Descriptions

- * Pump impeller being coated ,
- * Pump lining applied ,
- * External coating applied ,
- * Inspection after 4 years in service ,

Application Situation

Sludge immersion pump at a paper mill operating under severe wet abrasion conditions.

Application Method

The application was carried out in accordance with Belzona Know-How System Leaflets CEP-3, CEP-4 and CEP-5. Surface preparation was carried out using grit blasting. Pitted and eroded areas were rebuilt with Belzona 1311, the internal surfaces were then coated

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

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

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

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with Belzona 1321 to protect the pump from erosion-corrosion. Belzona 5811 was then used to protect the external surfaces of the pump.

Belzona Facts

The Belzona solution successfully withstood wet abrasion and managed to significantly prolong the life of this pump. After 4 years in service, the pump was inspected and found to be in perfect condition, with the Belzona coatings predominantly intact. These 4 years of stress-free operation amounted to significant savings due to the absence of maintenance and downtime. The length of maintenance-free time has now been doubled and instead of scrapping the whole pump, customer only needs to replace the coating.

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