

Belzona top up after 3 years service

ID: 7743

Industry: Power
 Application: CEP-Centrifugal Pumps
 Substrate: Carbon Steel
 Products: * Belzona 1121 (Super XL Metal) ,
 * Belzona 1341 (Supermetalglide) ,

Customer Location: Italy
 Application Date: 2015 (re-coated 2018)

Problem

Impingement erosion coupled with corrosion from the contaminated water had caused significant metal loss to various areas of the pump housing. Damage was most noticeable around the flow straighteners, where turbulent flow had increased the rate of erosion.



Photograph Descriptions

- * 1. Erosion / Corrosion damage ,
- * 2. Crack ends drill tapped and terminated by metal stitching ,
- * 3. Repair and coating application complete ,
- * 4. Re-coated after 3 years in service ,

Application Situation

Condensate extractor pumps carrying water contaminated with H₂S and SO₂ at Geothermal Power Plant.

Application Method

Application was carried out in accordance with System Leaflets CEP-5, CEP-6 & CEP-10.

Belzona Facts

The cost of replacement for the pump casing significantly outweighs using a coating as a sacrificial measure to be maintained/re-coated every 3-4 years. Belzona was selected for this application as alternative rebuild methods were unable to repair and terminate the cracked areas of the casing. The efficiency enhancement of the Belzona 1341 (Supermetalglide) introduced an additional cost benefit for the customer by reducing energy consumption of the pump. The pump was inspected 3 years into service and 80% of the coating was still in very good condition. The coating was refurbished before being put back into service.

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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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