

Drinking water split casing pump coating

ID: 9749

Industry: Water / Wastewater

Customer Location: Dammam, Saudi Arabia

Application: CEP-Centrifugal Pumps

Application Date: January 2025

Substrate: Carbon steel

Products: Belzona 1111 (Super Metal), Belzona 1341 (Supermetalglide)

Problem

Pumps work 24/7 to provide drinking water for residents; the 5 years of operations cause the pump to deteriorate, creating surface pitting and corrosion, so we recommended Belzona 1341 NSF grade to provide the necessary protection for the pump against the corrosion/erosion effects and at the same time drinking water grade approved. Customer is happy with the performance, as previous pumps stayed for 5 years.



Pump after blasting, surface pitting is visible



Pump coating with Belzona 1341



Final condition after inspection of the pump with Belzona 1111 and 2 coat system of Belzona 1341

Application Situation

The pumps have been in operation for around 10 years; the pumps are still new. Since the beginning, we proactively coated those pumps, which stayed in service for 5 years of operation 24/7, and now we are doing them for an extra 5 years as preventive maintenance. The customer was able to keep his pumps protected, saving cost of power all the way due to the hydrophobic features of the Belzona 1341

Application Method

We Grit blasted the surface to reach near white metal and 75 um microns as recommended by Belzona IFU. We made sure the salt level over the surface was very minimal, and we rebuilt the pitting with Belzona 1111, sweep blast, then 2 coat systems of 1341 at 250 um each to reach a total of 500 um average.

Belzona Facts

Belzona has proven itself since the beginning for 5 years of 24/7 services; this is almost 43,000 hours of service. In a drinking water-grade coating, with its hydrophobic features, the customer will do all their pumps again, and it will continue to do so every year due to their top selection.

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