

Rebuild surface and structural strength of diffuser pump component

ID: 9582

Industry: Power
Application: CEP-Centrifugal Pumps
Substrate: Cast Iron
Products: Belzona 1121 (Super XL-Metal), Belzona SuperWrap, Belzona 4111 (Magma-Quartz), Belzona 4141 (Magma-Build)

Customer Location: Etobicoke
Application Date: September 2024

Problem

The customer experienced significant erosion issues within the diffuser pump component and, after conducting tests, determined that the structural strength of the part needed to be reinforced.



Diffuser Component



Belzona 1341 for coating inside the surface



Belzona 4141 application to make a uniform shape.



Completed work with Belzona Superwrap II

Application Situation

Customer had previous experience with Belzona and they are happy with the performance of our SuperWrapII system to structurally reinforce their equipment.

Application Method

Belzona recommended the following solutions:

Belzona 1341 – To address erosion-corrosion issues on the internal surfaces of the pump.

Belzona 4111- To repair missing chunks of cast iron in the inside surface and fill some cracks

Belzona 4141 – To get component in uniform shape for superwrap application.

Belzona SuperWrap II (Belzona 9381, 1981, 1982) – To strengthen the structural integrity of the component.

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
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Repair • Protect • Improve

This comprehensive approach was designed to ensure both erosion resistance and structural reinforcement of the diffuser pump.

Belzona Facts

The product was all in stock and we were able to complete the repair in 3 days which was beneficial for the customer already had spent a significant time of their shutdown addressing other problems.

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