

Belzona solves special pump protection problem

ID: 9844

Industry: Chemical & Petrochemical

Customer Location: Bratislava

Application: ENC-Engines and Casings

Application Date: August 2023

Substrate: Carbon steel

Products: Belzona 4111 (Magma-Quartz), Belzona 4331 (Magma CR3)

Problem

The customer had a long-term problem with this special 6-stage mixing pump in terms of corrosion.



Corrosion damaged equipment



Blasting equipment for Belzona product application



Belzona 4111 was used to fill the pitting corrosion



Mixing pump parts before shipment

Application Situation

We were first approached by a customer to solve this problem in 2000. The pump mixes very aggressive media (a mixture of BTX 20%, Ethylene glycol 40% and N-methylpyrrolidone 40%) at temperatures exceeding 73°C. Several competing protective materials failed. After testing several Belzona products, Belzona 4111 and 4331 proved to be the best and most durable solution.

Application Method

Blasting of individual parts, chemical cleaning, sealing of affected parts with Belzona 4111, application of Belzona 4331 coating, and finally we also implemented an external protective coating.

Belzona Facts

By applying Belzona products, we have extended the pump's operating cycle several times and increased its efficiency by eliminating pitting corrosion. Thanks to a successful repair, this pump protection is carried out at regular intervals.

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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