

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

Belzona products are

FS 695214

manufactured under an ISO

ISO 14001:2015

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EMS 695213

Management System.

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