

Belzona protect Spent Caustic Reactor

ID: 9631

Industry: Chemical & Petrochemical
Application: TCC-Tanks and Chemical Containment Areas
Substrate: Carbon steel
Products: Belzona 1511 (Super HT-Metal), Belzona 1593

Customer Location: Dammam, Saudi Arabia
Application Date: June 2024

Problem

The customer relied on the reactor to treat spent caustic, but the old lining system had failed, causing frequent shutdowns that resulted in losses of \$20,000 per day. To address this issue, we recommended Belzona 1593 as a durable and effective solution.



Internal reactor body before coating

Close-up of the reactor manhole showing damage and corrosion of spent caustic over metal.

Belzona 1511 is applied

Final phase with Belzona 1593

Application Situation

The high cost of shutdowns due to the failure of previous coatings led the customer to seek a long-lasting solution. We conducted a thorough analysis of the old coating, including a root cause investigation, and proposed Belzona coating as the ideal long-term solution.

Application Method

The old coating was removed, and the surface was prepared through blasting to achieve a minimum profile of 75 µm and a near-white metal finish. Belzona 1511 was applied to smooth out welding joints, while Belzona 1593 was used to coat and protect the entire reactor.

Belzona Facts

Belzona has a dedicated global support team, allowing tank media to be analyzed by our R&D experts to ensure the optimal coating selection. In contrast, previous coatings from other brands were failing every three months. With Belzona, customers benefit from long-term protection, saving thousands of dollars in maintenance and downtime costs.

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

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9000 Registered Quality
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