

Leak Repair at Pickling Line

ID: 9080

Industry: Steel & Metal Processing
Application: TCC-Tanks and Chemical Containment Areas

Customer Location: Nanticoke, Ontario

Application Date: November 2017

Substrate: Carbon steel

Products: Belzona 1511 (Super HT-Metal), Belzona 1593, Belzona 9111 (Cleaner Degreaser)

Problem

Hydrochloric acid tank in a Pickle line was suffering from chemical attack and developed a leak. They needed a product that had excellent chemical resistance against Hydrochloric acid at high concentrations to stop this leak and protect the outside of the tank.



The substrate chemically attacked from the acid



Surface preparation with a grinder to bare metal



Cleaned substrate before product application



Finished application with Belzona 1593 as top coat

Application Situation

The Belzona repair offered several significant benefits. Firstly, it provided excellent chemical resistance against hydrochloric acid at high concentrations, safeguarding the tank from further chemical attack and potential leaks. Secondly, the use of Belzona allowed for a cost-effective solution, avoiding the need for costly tank replacements. Additionally, the quick and efficient repair process minimized downtime, ensuring the hydrochloric acid tank was back in operation promptly, saving valuable time and maintaining productivity.

Application Method

Belzona 1511 was used to bond the plate securely along its perimeter, while Belzona 1593 was injected to fill the void and ensure optimal protection against the chemical exposure. To provide comprehensive protection, the top of the plate and its surrounding

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 FS 695214
 ISO 14001:2015
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areas were coated with a layer of Belzona 1593, further enhancing the durability and longevity of the repair.

Belzona Facts

Over a span of three years, we maintained consistent communication with the customer and observed that the repair held up exceptionally well. Interestingly, the equipment encountered new leaks in various areas adjacent to the repaired section, but no issues were reported with the Belzona patch itself.

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