

# Leak Repair at Pickling Line

ID: 9080

**Industry:** Steel & Metal Processing  
**Application:** TCC-Tanks and Chemical Containment Areas  
**Substrate:** Carbon steel  
**Products:** Belzona 1511 (Super HT-Metal), Belzona 1593, Belzona 9111 (Cleaner Degreaser)

**Customer Location:** Nanticoke, Ontario  
**Application Date:** November 2017

## 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.



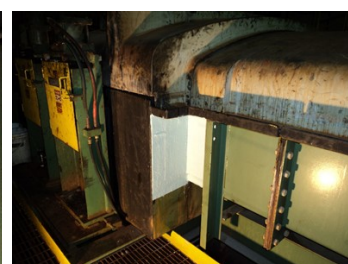
The substrate chemically attacked from the acid



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

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.

[www.belzona.com](http://www.belzona.com)

**BELZONA®**  
 Repair • Protect • Improve

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.

---

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.

[www.belzona.com](http://www.belzona.com)

