

# Glass Fused Steel Tank Shell Repair with Cold Bonding Technique

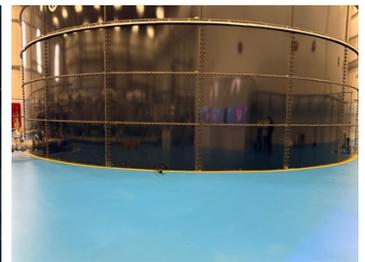
ID: 10169

Industry: *Food & Drink*  
Application: *TCC-Tanks and Chemical Containment Areas*  
Substrate: *Other*  
Products: *Belzona 1111 (Super Metal)*

Customer Location: *Saudi Arabia*  
Application Date: *April 2025*

## Problem

*Leakage was observed due to the loss of effective corrosion protection at the bottom section of the tank shell, leading to accelerated corrosion, wall thinning, and eventual perforation under normal operating conditions.*



Through-wall leakage at the bottom section of the tank shell

Surface preparation carried out by grit blasting

Plate bonding application using Belzona 1111 (Super Metal)

Drinking water tank condition after leakage repair

## Application Situation

The client had been temporarily sealing the leak with tape. The Belzona Authorized Distributor recommended a plate bonding repair using Belzona 1111 (Super Metal) as an engineered solution to restore the tank panel while remaining suitable for potable water service.

## Application Method

The repair was carried out while the tank was shut down. The metal plate was installed using Belzona 1111 (Super Metal) after the

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

surface was grit blasted to achieve the minimum required surface profile and cleanliness.

## Belzona Facts

The plate bonding technique using Belzona 1111 (Super Metal) provides a safe, effective, and durable repair solution for leakage at the bottom section of the Glass Fused Steel (GFS) tank shell. This method serves as a reliable alternative to welded repair.

---

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)

