

# Glass Fused Steel Tank Shell Repair with Cold Bonding Technique

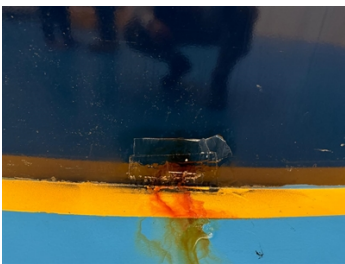
ID: 10169

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

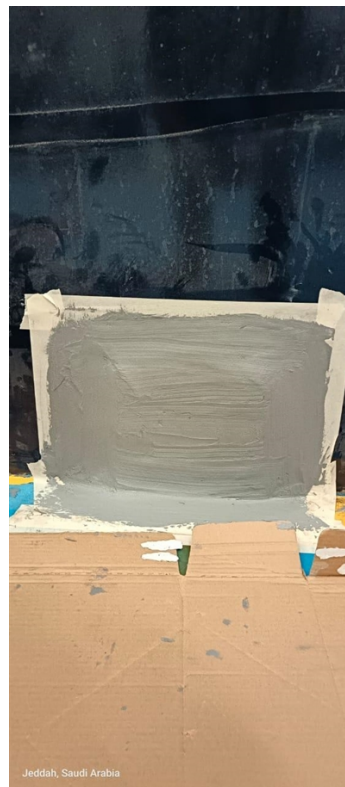
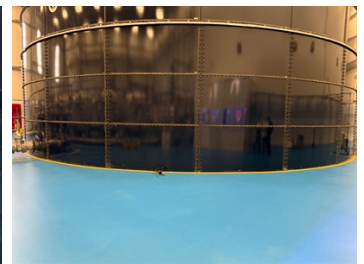


Plate bonding application using Belzona 1111 (Super Metal)



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

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ISO 9001:2015  
FS 695214  
ISO 14001:2015  
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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.

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