

# BELZONA COLD PLATE BONDING SOLUTION FOR SLUDGE TANK

ID: 4809

**Industry:** Water / Wastewater  
**Application:** TCC-Tanks and Chemical Containment Areas  
**Substrate:** Glass coated mild steel  
**Products:** \* Belzona 1161 (Super UW-Metal) ,  
\* Belzona 5831 (ST-Barrier) ,

**Customer Location:** Sewage treatment works - UK  
**Application Date:** 19/11/2013

## Problem

The primary sludge tank was suffering from through wall corrosion at the lowest panel level. The tank could not be taken off line due to demand and any repairs would have to be carried out without hot works or the use mechanical equipment due to the risk of sparks.



## Photograph Descriptions

- \* Through wall corrosion to primary sludge tank ,
- \* Surface preparation carried out by hand abrasion ,
- \* Repair with plate cold bonded over the through wall corrosion using Belzona 1161 ,
- \* Completed application ,

## Application Situation

Through wall corrosion on sludge tank fabricated from glass coated mild steel.

## Application Method

The application was carried out in accordance with Belzona Know-How System Leaflet TCC-3. After cleaning the area surface preparation by hand abrasion was carried out. A repair plate was cold bonded over the through wall defect using Belzona 1161

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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finally Belzona 5831 was applied to the entire repair area.

## Belzona Facts

The client had found this leak in the lowest row of panels on the primary sludge tank and required a fast solution as it was leaking effluent. Traditional repair methods required the tank off line for a minimum of a week. The Belzona solution was carried out live to keep the site running with minimal disruption and was carried out without hot works or the use of mechanical equipment in just one day. No other alternative were deemed to provide a viable solution to the client's requirements due to time scale and the risk of sparks.

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