

# BELZONA RECTIFIES LEAKAGE PROBLEM IN A BIOREACTOR CLARIFIER

ID: 131

**Industry:** Chemical & Petrochemical  
**Application:** TCC-Tanks and Chemical Containment Areas

**Customer Location:** Petrol Refinery in Thailand  
**Application Date:** January and February, 1996

**Substrate:** Concrete and Steel

**Products:** \* Belzona® 5811 (Immersion Grade),  
\* Belzona® 4111 (Magma-Quartz),  
\* Belzona® 2221 (MP Fluid Elastomer),

## Problem

Bottom of the tank had to be made waterproof and an expansion joint incorporated where the concrete floor meets the steel tank wall.



## Photograph Descriptions

- \* Concrete being repaired with Belzona® 4111 ,
- \* First coat of Belzona® 5811 being applied ,
- \* Expansion joints masked off and pouring of Belzona® 2221 commenced ,

## Application Situation

Steel bioreactor clarifier tank 100' diameter (31m) with a concrete bottom, split into six segments

## Application Method

Application carried out in accordance with Belzona® Know-How Leaflets TCC-9, TCC-11, TCC-12 and TCC-15

## Belzona Facts

Replacement of the tank was too expensive even to consider. Other options that were considered included using a glass flake system to coat the tank and welding a steel bottom onto the walls of the tank. The cost of this method would have been about £370,000. The Belzona® solution cost only £80,000, a saving of almost £300,000, and took a fraction of the time estimated for the welded repair.

For more examples of Belzona Know - How In Action, please visit <https://khia.belzona.com>

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FS 695214  
ISO 14001:2015  
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