

# BELZONA REPAIRS AND PROTECTS WATER TREATMENT PLANT

ID: 916

**Industry:** Power  
**Application:** TCC-Tanks and Chemical Containment Areas  
**Substrate:** Concrete and a failed competitor coating  
**Products:** \* Belzona® 4131 (Magma Screed) ,  
\* Belzona® 4181 (Magma AR Screed) ,  
\* Belzona® 4311 (Magma CR-1) ,

**Customer Location:** Nuclear Power Plant, Lancashire – UK  
**Application Date:** March 2007

## Problem

The concrete bunds and channel were badly deteriorated from the acid. Previously applied competitor coating had failed to protect the concrete substrate.



## Photograph Descriptions

- \* Substrate rebuilt using Belzona® 4131 ,
- \* Protection provided by Belzona® 4311 coating ,
- \* Channels rebuilt and lined with Belzona® 4181 ,
- \* Completed application back in service ,

## Application Situation

Sulphuric acid containment bund around tank and pipework Acid dilution bund. Sulphuric acid transfer channel. All located in the demineralisation (water-treatment) plant of the power station.

## Application Method

The application was carried out in accordance with Belzona Know-How system leaflets TCC-9 and TCC-15.

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  
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## Belzona Facts

The customer was impressed that this permanent repair was completed in five days. The first application was recently inspected after eight months because of an acid spillage during maintenance and the Belzona was still as good as the day it was first applied. Belzona® 4311 was chosen because the bund is frequently exposed to spillage and has proven to withstand the chemicals. Belzona® 4181 allowed rebuilding and protection of the channels whilst providing erosion resistance to the flow of acid.

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