

Water Treatment Plant Bund

ID: 9488

Industry: Power
Application: TCC-Tanks and Chemical Containment Areas
Substrate: Concrete
Products: Belzona 4131 (Magma-Screed), Belzona 4311 (Magma CR1), Belzona 4911 (Magma TX Conditioner)

Customer Location: Leeds ERF Plant
Application Date: July 2022

Problem

The original bund coating had failed after a short time in service, resulting in areas of exposed concrete within the banded area. The bund held a mixture of chemical storage tanks and dosing equipment. The chemicals contained within the bund were Hydrochloric Acid, Sodium Hydroxide and Caustic Soda.



Original Bund Coating with areas of exposed Concrete

Original Bund Coating with areas of exposed Concrete

The Belzona Coating after 2 years in service showing no signs of deterioration, even after the occasional leak.

Application Situation

The client required a coating that would handle the various chemicals stored within the bund if any spillages occurred. Also with concrete repairs required the client required a coating system that reduced downtime and avoided long curing times between the coatings used.

Application Method

Any existing loose coating was removed by mechanical/ and manual means.

Areas of exposed concrete were also taken back to sound material.

The whole bund was then prepared by the use of floor grinders to provide a suitable key for coating. all dust was then removed by vacuuming.

Areas of damaged concrete were repaired using Belzona 4131 (Magma Screed), the same product was also used to install a 50mm/50mm fillet around the bund walls and equipment.

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.

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Belzona 4911 (Magma TX Conditioner) was then applied, immediately followed by Belzona 2 coats of Belzona 4311 (Magma CR1). The system was then allowed to cure.

Belzona Facts

Belzona 4311 was selected because of outstanding resistance to a broad range of chemicals.

The coating was inspected after 2 years of service, and was showing no signs of deterioration.

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