

WATER TREATMENT PLANT BUND

ID: 9488



PROBLEM

The original bund coating had failed after a short time in service, resulting in areas of exposed concrete within the bunded 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.

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.

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.

INDUSTRY

Power

LOCATION

Leeds ERF Plant

APPLICATION DATE

July 2022

PRODUCTS

Belzona 4131 (Magma-Screed)

Belzona 4311 (Magma CR1)

Belzona 4911 (Magma TX Conditioner)

SUBSTRATE

Concrete

PHOTOS

1. Original Bund Coating with areas of exposed Concrete
2. Original Bund Coating with areas of exposed Concrete
3. The Belzona Coating after 2 years in service showing no signs of deterioration, even after the occasional leak.

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Belzona products are manufactured under an ISO 9001 Registered Quality Management System.

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