

BELZONA REBUILDS SECONDARY CHEMICAL CONTAINMENT

ID: 6353



PROBLEM

Repeated contact with caustic and hydrochloric acid over a period of years had caused serious damage to the concrete floor, tank and pump support bases.

APPLICATION SITUATION

Badly damaged concrete in a caustic and hydrochloric acid secondary containment area at a chemical plant. Both caustic and hydrochloric acid are at 10% concentration and at ambient temperature.

APPLICATION METHOD

The application was carried out in accordance with Belzona System Leaflets TCC-9 and TCC-15. Damaged and loose concrete was removed and the entire area was high pressure water washed. PH testing was carried out and the area verified neutral after washing. When dry the eroded vertical surfaces of the tank and pump support bases were rebuilt with Belzona 4141 (Magma-Build). The deeply eroded areas of the concrete floor were filled to within approximately 1/4" of the final grade using Belzona 4154 (Bulkfill Resin) and sand. The final grade required for proper drainage was achieved using Belzona 4131 (Magma-Screed). The entire area was protected with Belzona 5811 with a light broadcast coat of aggregate for slip-resistance.

BELZONA FACTS

Belzona products were chosen for their proven durability and chemical resistance for the long term protection of secondary chemical containment areas.

INDUSTRY

General Industry

LOCATION

Eastover, SC, USA

APPLICATION DATE

August 2016

PRODUCTS

1. Belzona 4154 (Bulkfill Resin)
2. Belzona 4141 (Magma-Build)
3. Belzona 4131 (Magma-Screed)
4. Belzona 5811 (Immersion Grade)

SUBSTRATE

Concrete

PHOTOS

1. Damaged concrete showing depth below grade.
2. Belzona 4154 being used to fill deeply eroded area.
3. Final grade with Belzona 4131 (Magma-Screed).
4. Final coat with Belzona 5811 and broadcast aggregate.

For more examples of Belzona Know-How in Action, please visit khia.belzona.com

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

www.belzona.com

Copyright © 1952-2026 Belzona International Limited.

