

BELZONA REBUILDS SECONDARY CHEMICAL CONTAINMENT

ID: 6353

Industry: *General Industry*
Application: *TCC-Tanks and Chemical Containment Areas*

Customer Location: *Eastover, SC, USA*

Application Date: *August 2016*

Substrate: *Concrete*

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

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.



Photograph Descriptions

- * 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. ,

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.

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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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.

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