

# BELZONA PROTECTS CONCRETE CONTAINMENT BASIN

ID: 5237

**Industry:** Chemical & Petrochemical  
**Application:** TCC-Tanks and Chemical Containment Areas  
**Substrate:** Newly poured concrete  
**Products:** \* Belzona 4311 (Magma CR-1) ,  
\* Belzona 4181 (AHR Magma Quartz) ,  
\* Belzona 4911 (Magma TX Conditioner) ,

**Customer Location:** Orangeburg, South Carolina  
**Application Date:** November 2011

## Problem

Agressive chemicals, aluminum chloride, aluminum chlorhydrate, ferric acid and hydrogen chloride destroyed the concrete after many years of service at this plant. The tank foundation support, walls, floors and drain bunds need protection from these chemicals.



## Photograph Descriptions

- \* Column support uncoated and exposed to chemical penetration and erosion. ,
- \* Newly poured concrete containment area. ,
- \* Concrete tank support area with 4311 applied. ,
- \* Completed containment area after 2 coats. ,

## Application Situation

Outdoor Concrete Containment Basin

## Application Method

Belzona Know-How System Leaflets TCC-15 and FPA-3 with some modification were followed. Concrete was pre-powerwashed and allowed to dry according to the IFU time frame. Concrete was tested for moisture content. All materials were brushed or rolled on. Belzona 4311 was applied in two coats after curing and application of Belzona 4911 conditioner on the walls and floor. Belzona 4181 was applied into the bunds as this is where the greatest accumulation of chemicals will sit.

For more examples of Belzona Know - How In Action, please visit <https://khia.belzona.com>

ISO 9001:2015  
FS 695214  
ISO 14001:2015  
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## Belzona Facts

The customer chose to protect a new concrete chemical containment area due to the aggressive chemicals that spill in this load area. Failure to provide a protective coating will significantly degrade the concrete. These coating have a protective rating against these chemicals. The cost of tearing up damaged concrete and replacing it exceeds the cost of this coating by 5 times.

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