

Recycled Acid Containment Concrete Repair & Coating

ID: 8951

Industry: Chemical & Petrochemical

Customer Location: Decatur, AL, United States

Application: TCC-Tanks and Chemical Containment Areas

Application Date: December 2021

Substrate: Concrete

Products: Belzona 4111 (Magma-Quartz), Belzona 4311 (Magma CR1)

Problem

A rubber lined recycled acid day tank occurred a leak in a seam in the liner and exposed the containment to acid. The acid filled the secondary containment almost 2 foot deep and destroyed the previous coating. Over time and years of exposure during filling the small amounts that leaked from the flange and hose caused the damage to the sump pit area.



Damage to the sump pit area.



Repairs that were made using Belzona 4111.



Finished repair and coating. Belzona 4311 was used.

Application Situation

Using Belzona in this application was decided based upon the chemical in the day tank and years of abuse the containment endured due to spillage during filling. Cost was not a factor in this application due to the amount of damage, it was less expensive for the customer to repair and protect than to demo and replace.

Application Method

In this application we started the process by first pressure washing and neutralizing the concrete to remove any containments and debris. Then there were several cracks we repaired during this project. We drilled the cracks out to stop them from expanding further then created a V in the cracks using hand held grinding tools with diamond disc. We used the same process for the sump pit area. Once all areas were prepped following Belzona guidelines we then made the repairs using hand held tools reforming the sump pit area and coating the containment using hand rollers.

Belzona Facts

The cost repair and protect was thousands of dollars cheaper than to demo and replace. And the return to use time was a huge

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ISO 9001:2015

FS 695214

ISO 14001:2015

EMS 695213

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manufactured under an ISO
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factor in the customer determining to go with Belzona.

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