Belzona repairs and coats HCL containment at steel mill

ID: 10336

Industry:	*Steel & Metal Processing*	Customer Location:	*Butler*
Application:	*TCC-Tanks and Chemical Containment Areas*	Application Date:	*February 2026*
Substrate:	*Concrete*		
Products:	*Belzona 4151 (Magma-Quartz Resin),Belzona 4154 (Bulkfill Resin),Belzona 4181 (AHR Magma-Quartz),Belzona 4311 (Magma CR1),Belzona 4911 (Magma TX Conditioner),Belzona 4981 (Magma HT Conditioner),Belzona 5811 (Immersion Grade)*		

Problem

My customer at one of the largest and most profitable steel mills in the United States called asking if I have a coating to protect against hydrochloric acid in a high heat environment. I went onsite and noticed a lot of pitting and deterioration of concrete in the trench and secondary containment. It was in bad shape and they needed a solution.



Before photo: as you can see, there is severe pitting and errosion, corrossion and chemical attacks. The concrete sees 18% Hydrochloric acid and temperatures up to 104 degrees fahrenheit.



After rebuilding the containment with Belzona 4911 and Belzona 4154, the trench was topped off with Belzona 4111 followed by Belzona 5811 to protect against corrosion then Belzona 4311/ 4981/4181 were used in steam out areas



During application of Bulkfill and Belzona 41111 Magma Quartz



Completed application

Application Situation

The concrete exhibits advanced surface deterioration and coating failure characterized by delamination, spalling, and material loss, with areas of active moisture intrusion and chemical staining.
Cracking and surface erosion along the edge of the concrete slab, suggesting ongoing deterioration mechanisms.

Application Method

Abrasive blast and Diamond Grinding was done for surface preparation

Belzona Facts

Belzona was selected because the client wanted the best product for the job and is happy with my customer service. I sold them on the benefits and logivity of Belzona. They did not want to have to do the job again.

ISO 9001:2015
FS 695214
ISO 14001:2015
EMS 695213

Belzona products are manufactured under an ISO 9000 Registered Quality Management System.

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