

H2S Damaged Lift Station Rebuilt and Protected with Belzona

ID: 7812

Industry: Buildings & Structures
Application: TCC-Tanks and Chemical Containment Areas
Substrate: Concrete
Products: * Belzona 1212 ,
* Belzona 4131 (Magma-Screed) ,
* Belzona 4141 (Magma-Build) ,
* Belzona 4911 (TX Conditioner) ,
* Belzona 5811 (immersion Grade) ,

Customer Location: Florida, USA
Application Date: Spring 2018

Problem

Concrete had no previous protective coating and showed damage due to H2S.



Photograph Descriptions

- * 1. Training of the application crew. ,
- * 2. Technicians applying Belzona 4911. ,
- * 3. Application of Belzona 4131 (Magma-Screed). ,
- * 4. Final coat of Belzona 5811. ,

Application Situation

A lift station suffered from H2S damage.

Application Method

The application was carried out in accordance with modified versions of TCC-9 and TCC-15. Preparation consisted of pressure washing and blasting the concrete to clear out any loose or H2S damaged concrete. Belzona 4911 (TX Conditioner) was applied. NOTE:(a small ground water leak had formed during the application of Belzona 4911, Belzona 1212 was used from a supplied Belzona 1212 emergency kit with reinforcement sheet rolled up and pressed into the hole and sealed with more Belzona 1212 over it - this repair stopped the ground water and we continued the application of Belzona 4911). Then, Belzona 4131 (Magma-Screed) was applied to the walls. NOTE:(Belzona 4141 was used if the damaged was greater then 1/4" on the walls and applied to the ceiling of the lift station). Belzona 5811 was applied as a two-coat system.

Belzona Facts

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
Management System.

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The application was performed as an expensive alternative installation of a new lift station. The Customer was impressed with the performance of Belzona products from past Know-How in Action case studies presented.

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