H2S Damaged Lift Station Rebuilt and Protected with Belzona

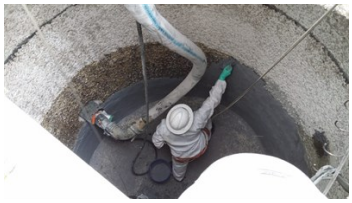
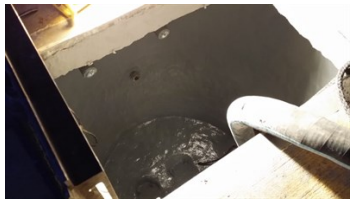
ID: 7812

Industry:	*Buildings & Structures*	Customer Location:	*Florida, USA*
Application:	*TCC-Tanks and Chemical Containment Areas*	Application Date:	*Spring 2018*
Substrate:	*Concrete*		
Products:	** Belzona 1212 ,* ** Belzona 4131 (Magma-Screed) ,* ** Belzona 4141 (Magma-Build) ,* ** Belzona 4911 (TX Conditioner) ,* ** Belzona 5811 (immersion Grade) ,*		

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

Copyright © Belzona International Limited 2026

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.

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

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

www.belzona.com

Copyright © Belzona International Limited 2026