

Belzona Provides Unconventional Tank Base Sealing

ID: 8131

Industry: General Industry
Application: GSS-Gaskets, Seals and Shims
Substrate: Steel & Concrete.
Products: * Belzona 2911 (QD Conditioner) ,
* Belzona 2211 (MP Hi-Build Elastomer) ,
* Belzona 3921 (GSC Conditioner) ,
* Belzona 3931 (WG Conditioner) ,
* Belzona 3131 (WG Membrane) ,

Customer Location: Chemical Company, Warrington
Application Date: October 2019

Problem

The problem was leakage of product under the base plate in trickles suggesting there is a pinhole in the steel annular plate. It was nearly impossible to remove the hardened product and consequently the location of the pinhole is impossible to locate.



Photograph Descriptions

- * 1. Showing annular plate / concrete plinth leakage and corrosion ,
- * 2. Shows solidified product in the base of the tank ,
- * 3. Application of conditioners ,
- * 4. Completed application ,

Application Situation

Old storage tank being brought back into service due to client demands, the company needed to refurbish the tanks with health & safety in mind. The tanks hold neutral sodium silicate and the old product has solidified in the bottom of the tank, removal was not cost effective.

Application Method

The steel annular plate was abraded manually to give a rough finish, and the concrete receive the same treatment to remove any debris and contamination. Belzona 2911 was applied between the base plate and plinth and allowed to dry. Belzona 2211 was applied into the gap to provide a seal and prevent further product leakage. Belzona 3921 and Belzona 3931 were applied to condition the annular plate, followed by two coats of Belzona 3131 to finish. The application was completed in accordance with Belzona System Leaflet GSS-3.

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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Repair • Protect • Improve

Belzona Facts

Belzona offered a leak sealing solution to the client and a flexible protection system for the interface between the annular plate and concrete plinth. The cost savings here are huge as they could not use this tank for H&S reasons due to product leakage into the bunded area. A new tank would have been the only answer.

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