

Belzona protects large bund from chemical attack

ID: 7966

Industry:

Customer Location: Spain

Application: TCC-Tanks and Chemical Containment Areas

Application Date: June 2017

Substrate: Concrete

Products: * Belzona 4911 ,
* Belzona 4341 ,
* ,

Problem

The aggressive chemicals have caused severe damage to the existing coating and the concrete beneath causing environmental concerns.


Photograph Descriptions

- * 1. Initial condition before repair ,
- * 2. Belzona coating applied ,
- * 3. After 1.5 years in service ,
- * 4. Second view after 1.5 years in service ,

Application Situation

A chemical neutralization bund in a refinery containing 90% concentration of sulfuric acid and 50% concentration of sodium hydroxide. Temperatures can reach up to 80°C.

Application Method

The application was carried out in accordance with Belzona System Leaflet TCC-15. The concrete was first cleaned with high pressure water jetting to remove the existing coating and contamination from the substrate. The surface was then grit blasted using a metallic grit, before Belzona 4911 was applied to ensure excellent adhesion. Finally, a two coat system of Belzona 4341 was applied to form a protective barrier.

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
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A previous coating has failed to last after a short time in service. The customer required a long lasting coating to prevent the possibility of degradation of the concrete, which could lead to spillages into the ground. The customer had previous experience with Belzona solutions for various applications including pumps, composite patches, composite pipe wraps and more - and so had confidence that Belzona could deliver a solution for this application. After 1.5 years in service, the area was revisited and found to be in excellent condition.

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