

BELZONA SAVES CORRODED SPRINKLER TANK BY PLATE BONDING

ID: 4899

Industry: General Industry

Customer Location: Industrial Foam Manufacturer,
Northamptonshire UK

Application: TCC-Tanks and Chemical Containment
Areas

Application Date: December 2013

Substrate: Steel

Products: * Belzona 1161 (Super UW Metal) ,
* Belzona 5831 (ST Barrier) ,

Problem

Over several years the tank had become badly corroded at the water line around approx. 50% of the circumference, causing it to split open in some areas with water constantly flowing out.



Photograph Descriptions

- * Large sprinkler tank with corrosion at water line ,
- * Surface being prepared with MBX Bristle Blaster ,
- * 36 off 400mm long x 300mm high steel plates being installed using Belzona 1161 ,
- * Installation of steel plates completed and coated with Belzona 5831 ,

Application Situation

6m diameter x 6m high circular steel panelled tank supplying water 24 hours a day / 7 days a week for the internal fire sprinkler safety system in a large foam product manufacturing plant

Application Method

Application was carried according to Belzona Know How System Leaflet TCC-1. The tank surface to be re-plated was cleaned and abraded using an MBX Bristle Blaster to create a profile. 36 off steel plates each 400mm long x 300mm high x 3mm thick were bonded in place with Belzona 1161 using 4 x countersunk screws per plate to hold them in place. The ends of the new plates were ground to create a "V" where they butted together, and filled with Belzona 1161 after installation to seal the joints and bond all the plates together. The plates were then coated with Belzona 5831.

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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Belzona Facts

The sprinkler tank needed to be constantly on line for fire safety and Insurance reasons. Stopping production to remove it and replace it with a new tank was not an option for the customer due to time, space and budget restraints. The Belzona 1161 cold plate bonding method allowed the corroded & split tank to be refurbished to a good condition whilst the tank was still in use. The total Belzona material cost was £3,700, a fraction of the cost to replace the tank. Also the customers water bill was greatly reduced.

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