

Belzona SuperWrap II used at a Sewage Treatment Plant

ID: 8397

Industry: Water / Wastewater
Application: TCC-Tanks and Chemical Containment Areas

Customer Location: Poland
Application Date: October, 2020

Substrate: Steel

Products: * Belzona 1981 (Superwrap II Resin) ,
* Belzona 9381 ,
* Belzona 9382 ,
* Belzona 1111 (Super Metal) ,
* Belzona 9611 (ES Metal) ,
* Belzona 5821 ,
* Belzona 2911 (Elastomer QD Conditioner) ,
* Belzona 2211 (MP High Build Elastomer) ,
* Belzona 9341 ,

Problem

Erosion and perforation at the base off the steel tank.



Photograph Descriptions

- * Image 1: Internal of the Tank Image ,
- * 2: Application of SuperWrapp II Image ,
- * 3: Application showing Belzona 5821 & Belzona 2211 ,
- * Image 4: Complete Application ,

Application Situation

A length of 2 m and a width of 0.5 m, in the lower part of the bottom of the tank, the steel wall thinned from 5 mm to 4.2 mm; 3.8mm; 2.4mm in one place 1.8mm with one leak (a hole with a diameter of 5mm).

It occurred as a result of abrasion in this area and sub-cladding corrosion. The bottom of the tank rests on the concrete foundation. The Tank diameter - 20m, mild steel St3S, conical bottom. The original sheet thickness 5mm. Working temperature in the tank 30-40 degrees C.

Application Method

To begin with abrasive blasting were completed in accordance with International Standards followed by removal of dust and

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.

www.belzona.com


BELZONA[®]
Repair • Protect • Improve

degreasing.

Repair of perforation and strengthening the shell weld with Belzona 1111 composite Belzona 9341 we completed in accordance with Belzona System Leaflet TCC-01

Belzona SuperWrap II system application was used to repair most areas exposed to erosion then followed by application of Belzona 5821 as a top coat. Completed in accordance with an adapted version of VPF-11 and TCC-03

Concrete expansion Joints beneath the steel jacket that came in contact were completed in accordance with Belzona System Leaflet FPA-06 where Belzona 2911 and Belzona 2211 were applied.

Belzona Facts

Belzona SuperWrap II was primarily selected due to repairing the tanks integrity to ensure a long lasting performance for years to come.

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.

www.belzona.com

