

CO2 Absorber Rubber Lining Replaced with Belzona Coating System

ID: 9290

Industry: Power

Application: TCC-Tanks and Chemical Containment Areas

Substrate: Carbon steel

Products: Belzona 1331, Belzona 5811 (Immersion Grade)

Customer Location: RAS LAFFAN, QATAR

Application Date: December 2023

Problem

The rubber lining of the CO2 absorber was swelling, blistering and crackings throughout the tank interior. Corrosion damage to the base metal was so pronounced that it could be glimpsed through cracked/delaminated rubber lining.



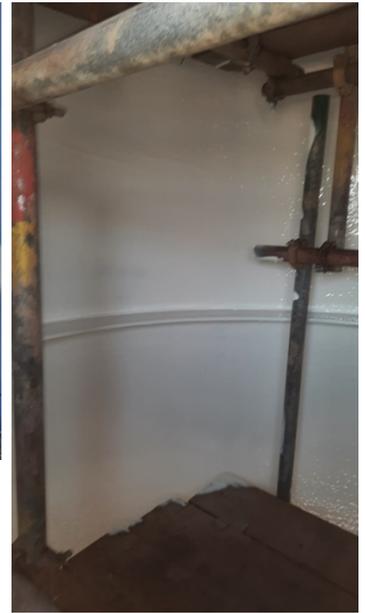
Traces of severe corrosion from under the rubber lining



Coating application in progress to the manway and flange



Manway and flange coated and protected



Protected tank interior after application

Application Situation

The damaged rubber lining was replaced with a Belzona epoxy coating system. The original system thickness requirement by the customer was a minimum of 2 mm, as the previous rubber lining was 3 mm thick. The proposal initially considered was a 2 mm thick build-up with Belzona 1111, but it was too costly and over budget to cover the entire interior surface, so Belzona 5811 was used for the build-up instead of Belzona 1111.

Application Method

The application was carried out in accordance with Belzona Know-How System Leaflet TCC-3.

Three coats of Belzona 5811 (Immersion Grade) were applied as filler and to cover the wall loss. Belzona 1331 was applied as the final top coat.

Each coat was applied using an airless spray machine. The materials were applied in accordance with the relevant Instruction For Use and the guidance of approved method statement.

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

Almost all internal surfaces had pitting and Belzona 5811 was applied directly to the substrate to fill and seal the pitted, uneven surfaces without the use of smoothing paste grade material. Belzona 1331, applied as a topcoat on the premise of contact with the medium, offers excellent erosion/corrosion resistance and a long service life.

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