

BELZONA CORROSION PROTECTION FOR CO2 ABSORBER TOWER

ID: 6424

Industry: General Industry
 Application: TCC-Tanks and Chemical Containment Areas
 Substrate: Carbon Steel
 Products: * Belzona 1311 (Ceramic R-Metal) ,
 * Belzona 1391 (Ceramic HT) ,

Customer Location: Nitrogen Fertilizer Plant, Bulgaria
 Application Date: August 2014

Problem

Significant defects of the inner walls and the bottom of the absorber due to corrosion and erosion in the presence of aggressive chemicals such as MDEA & MEA at elevated temperatures (80-100°C).



Photograph Descriptions

- * 1. Inspection in 2016 of the lining applied in 2014 ,
- * 2. View of the pad welded defect areas ,
- * 3. View of repair with Belzona 1311 ,
- * 4. The final application with Belzona 1391 ,

Application Situation

60 metre tall process CO2 absorber tower required corrosion protection

Application Method

The applications were carried out in accordance with Belzona Know-How Leaflet TCC-3. The customer pad welded deeply pitted areas. Less damaged areas were filled and smoothed with Belzona 1311 before coating with Belzona 1391.

For more examples of Belzona Know - How In Action, please visit <https://khia.belzona.com>

ISO 9001:2015
 Q 09335
 ISO 14001:2015
 EMS 509612

Belzona products are
 manufactured under an ISO
 9000 Registered Quality
 Management System.

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Belzona Facts

The process tower had worked previously without internal lining until the discovery of major erosion / corrosion defects. The first application of Belzona was carried out in 2014 and the condition was inspected every year. The last inspection in 2016 has reported no degradation of Belzona lining.

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