

BELZONA CORROSION PROTECTION FOR CO2 ABSORBER TOWER

ID: 6424



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).

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.

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.

INDUSTRY

General Industry

LOCATION

Nitrogen Fertilizer Plant, Bulgaria

APPLICATION DATE

August 2014

PRODUCTS

Belzona 1311 (Ceramic R-Metal)
Belzona 1391 (Ceramic HT)

SUBSTRATE

Carbon Steel

PHOTOS

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

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