

## BELZONA PROTECTS CO<sub>2</sub> ABSORBER TOWER

### CUSTOMER

Fertilizer plant, Bulgaria

### APPLICATION DATE

August, 2014

### APPLICATION SITUATION

CO<sub>2</sub> Absorption tower 41m high, 4m diameter - lower part

### PROBLEM

Vessel was working without lining and suffering severe internal corrosion due to presence of amines MEA/MDEA at elevated temperature up to 100°C. Coating required to extend service life of the vessel.

### PRODUCTS

Belzona 1311(Ceramic R-Metal)

Belzona 1391(Ceramic HT-Metal)

### SUBSTRATE

Carbon Steel

### APPLICATION METHOD

Application was carried out in accordance with Belzona Know-How Leaflets TCC-3 & TCC-5. Belzona 1311 was used to repair pitting and to smooth out weld repairs before the lower part of the vessel was coated with Belzona 1391.

### BELZONA FACTS

Previously the eroded/corroded areas had been repaired by the customer's own staff welding and grinding those areas almost each year during seasonal shutdowns for maintenance. This sort of conventional repair presented a safety risk and was time consuming. The decision to use cost-effective Belzona protective system saved company money, time and reduced risk. In addition Belzona coating will provide long term resistance to the chemical attack and corrosion.

### PICTURES

1. General view of the tower
2. Severe pitting was revealed after surface preparation by abrasive blasting
3. Application of the first coat of Belzona 1391 underway
4. View of the final application. Belzona 1391 was applied in two coats with grit blasting between the first and the second coat



1.



2.



3.



4.

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



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