BELZONA PROTECTS CO2 ABSORBER TOWER

ID: 5232

Industry:	*Chemical & Petrochemical*	Customer Location:	*Fertilizer plant, Bulgaria*
Application:	*TCC-Tanks and Chemical Containment Areas*	Application Date:	*August, 2014*
Substrate:	*Carbon Steel*		
Products:	** Belzona® 1311(Ceramic R-Metal) , * Belzona® 1391(Ceramic HT-Metal) ,*		

Problem

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




Photograph Descriptions

* 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 ,

Application Situation

CO2 Absorption tower 41m high, 4m diameter - lower part

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.