

BELZONA PROTECTION OF CO₂ COMPRESSOR

CUSTOMER

Soda plant, Bulgaria

APPLICATION DATE

October, 2005

APPLICATION SITUATION

100,000 m³/h multistage centrifugal compressor of CO₂ for Sodium Carbonate production

PROBLEM

Erosion/corrosion damages on the outlet section due to high temperatures (110°C), water injection and acid contaminated flue gas.

PRODUCTS

Belzona® 1311 (Ceramic R-Metal)

Belzona® 1392 (Ceramic HT2)

SUBSTRATE

Cast Iron

APPLICATION METHOD

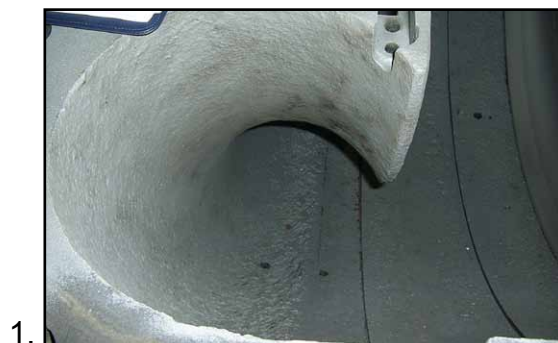
Application was carried out in accordance with a modified version of Belzona Know-How System Leaflets CEP-3, CEP-5 and SHM-7.

BELZONA FACTS

No other effective alternative available. Stainless steel cladding was fit on the most damaged sections using Belzona® 1311 to provide further protection. Inspection after 6 months and 2,000 working hours of the unit reviewed only slight discolouration and loss of gloss. According to this application method five compressors have been protected in the plant.

PICTURES

1. Erosion/corrosion damage to the internal surfaces reviewed after blasting
2. Belzona® 1392 applied
3. Belzona® 1311 used to fix the stainless steel plates
4. View of the protected internal profile after 2,000 working hours in service of application made in 2005



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



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