

BELZONA UNCLOGS FOULED SCRUBBER

ID: 907



PROBLEM

Carbon steel vessel walls had become rough due to corrosion. Roughened walls then trapped sand and ash which lead to rapid fouling four to eight feet thick. This fouling rendered the scrubber ineffective and the electrostatic precipitator had to make up the deficit at a cost of \$50,000 per day.

APPLICATION SITUATION

Scrubber in the cogeneration plant of a sugar refinery.

APPLICATION METHOD

Belzona® 1811 and Belzona® 1391 were applied in accordance with a modified Belzona Know-How System Leaflet TCC-3.

BELZONA FACTS

The original three inch thick concrete liner wore through in three months exposing the carbon steel vessel walls. Additionally, the roughness and porosity of the concrete exacerbated the fouling problem.

INDUSTRY

Sugar

LOCATION

Sugar Refinery - Florida USA

APPLICATION DATE

October 2005

PRODUCTS

Belzona 1811 (Ceramic Carbide)
Belzona 1391 (Ceramic HT)

SUBSTRATE

Carbon steel

PHOTOS

1. One of two scrubbers to be rescued with Belzona.
2. Belzona 1811 (Ceramic Carbide) was applied to high wear areas to provide extra abrasion resistance.
3. Belzona 1391 (Ceramic HT) provides a smooth surface and has the abrasion and temperature resistance required.
4. Belzona 1391 (Ceramic HT) eleven months later. Discoloration is caused by elevated temperatures but coating is 100% intact and fouling was totally eliminated.

For more examples of Belzona Know-How in Action, please visit khia.belzona.com

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