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CASESTUDY

Belzona Unclogs Fouled Scrubber

One of two scrubbers to be rescued with Belzona

Belzona® 1811 (Ceramic Carbide) was applied to high wear areas to provide extra abrasion resistance

Belzona® 1391 provides a smooth surface and has the abrasion and temperature resistance required

Belzona® 1391 eleven months later. Discoloration is caused by elevated temperatures but coating is 100% intact and fouling was totally eliminated

STATISTICS

CUSTOMER
Sugar Refinery - Florida USA

APPLICATION DATE
October 2005

SUBSTRATE
Carbon steel

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

APPLICATION SITUATION
Scrubber in the cogeneration plant of a sugar refinery.

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 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.

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