Belzona Unclogs Fouled Scrubber

ID: 907

Industry:	*Sugar*	Customer Location:	*Sugar Refinery - Florida USA*
Application:	*TCC-Tanks and Chemical Containment Areas*	Application Date:	*October 2005*
Substrate:	*Carbon steel*		
Products:	** Belzona® 1811 (Ceramic Carbide) , * Belzona® 1391 (Ceramic HT) ,*		

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.

Photograph Descriptions

* 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 (Ceramic HT) provides a smooth surface and has the abrasion and temperature resistance required. ,
* Belzona® 1391 (Ceramic HT) eleven months later. Discoloration is caused by elevated temperatures but coating is 100% intact and fouling was totally eliminated. ,

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.

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FS 695214
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EMS 695213

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