

Agitator Protected From Acid Attack by Belzona

ID: 7795

Industry:

Application: FBC-Fans, Blowers and Compressors

Customer Location: Andalucia, Spain

Application Date: October 2018

Substrate: Carbon Steel

Products: * Belzona 1511 (Super HT-Metal) ,
* Belzona 4341 (Magma CR4) ,

Problem

Concentrated sulfuric acid at elevated temperatures was causing deterioration of the agitator blades, which were being replaced every 4 months as a result.



Photograph Descriptions

- * 1. Damage to Blades ,
- * 2. Rebuilt with Belzona 1511 ,
- * 3. First coat applied ,
- * 4. Completed application ,

Application Situation

Agitator blades exposed to chemical attack and erosion in copper plant.

Application Method

Application was carried out in accordance using a modified version of System Leaflet FBC-2.

Belzona Facts

Initially the customer believed that the problem was caused by erosion, due to the concentration of suspended solids within the

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ISO 9001:2015
FS 695214
ISO 14001:2015
EMS 695213

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fluid. They had tried a rubber coating to protect the blades, however the poor chemical resistance to the acid and temperature caused the rubber lining to fail quickly. It was concluded that erosion may not be the main cause of the damage, hence the customer wanted to trial a chemical resistant lining. As the conditions are 40% Sulfuric Acid at 80degC, Belzona 4341 is the best choice. An aggregate was incorporated into the coating to add some erosion resistance.

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