

Challenge

Issue

Severe pitting corrosion under the coating risked leakage of corrosive hot flue gases and slurry from the absorber.

Goal

Provide an extreme corrosion resistant lining with exceptional adhesion.

Root Cause

A glass flake vinyl ester lining installed less than 2 years previously had poor adhesion and was delaminating in sheets.

Solution

Preparation

- Completely remove existing lining and clean with high pH water based cleaners
- Abrasive blast clean to Sa 2.5 with 3 mil (75 μm) angular profile

Application

 Spray apply 3 coats of ARC S2 to DFT* of 36 mils (900 μm)

*DFT (Dry Film Thickness) in 100% Solids Epoxy = WFT (Wet Film Thickness)

Results

Performance Inspection

Client monitored the performance of the ARC S2 coating closely over 4 years.

Performance Benefits

Client was satisfied after 4 year's service that the ARC S2 coating had stopped further pitting corrosion of the substrate.

Operating Benefits

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- 100% increase in coating lifetime with no indication degradation
- Increased availability (up-time) of absorber



Glass flake reinforced vinylester coating delaminating from substrate after <2 years in service



ARC S2 applied using heated plural component airless spray system



Completed ARC S2 installation in absorber spray zone and smooth surface

Technical data reflects results of laboratory tests and is intended to indicate general characteristics only

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