

## 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.



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

## 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)



ARC S2 applied using heated plural component airless spray system

## 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

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



Completed ARC S2 installation in absorber spray zone and smooth surface