

## Challenge

### Issue

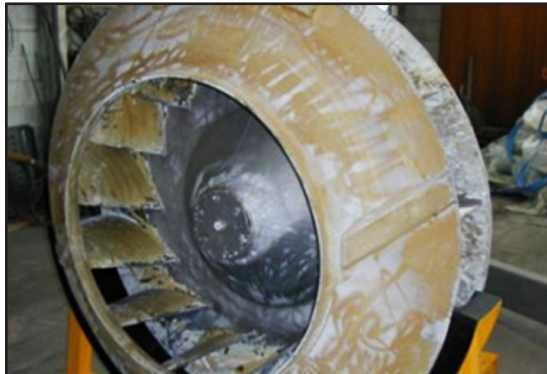
Glass flake coating failure caused general erosion/corrosion damage to fan and excess dust attachment caused imbalance and premature bearing failure.

### Goals

- Reduce dust build-up and provide longer corrosion protection

### Root Cause

Corrosive gases caused corrosion of exposed metal surfaces. Dust attachment caused imbalance and vibration.



Six months of erosion and build up

## Solution

### Preparation

- Blast off old coating
- Decontaminate surface
- Grit blast to Sa 2.5 with 3 mil (75 µm) angular profile

### Application

1. Apply **ARC 858** to worn and pitted areas
2. Apply 2 coats of **ARC SD4i** to final DFT: 60 mils (1.5 mm)



Installed fan coated with ARC

## Results

### Client Reported

- Virtually no build up at 6 months
- Vibration no longer an issue, bearing life extended
- No erosion or corrosion at 6 months
- Back in service in 1 hour after inspection, inspections now yearly vs bi-annually



After 1 year inspection: put back in service