

Challenge

Issue

Previously specified coating failed within 12 months. Cost of alloy cladding was not justified. If left unprotected exposed steel would fail due to corrosion within 12 months.

Goals

Provide a repairable coating with track record of lasting >24 months between repairs.

Root Cause

Condensing acids at the cold areas of the ductwork caused heavy corrosion on framework of the duct.

Solution

Preparation

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

Application

1. Apply **ARC S7** by brush as stripe coat to all weld seams
2. Airless spray apply **ARC S7** at total DFT of 20 mils (500 µm)

Results

Client Reported

- After extensive testing and approval, **ARC S7** was selected by OEM as new lining system
- Six units were coated with **ARC S7** and shipped to job sites for installation
- More than 1200 m² of **ARC S7** has been installed in bag houses for OEM client



Original coating typically started to fail within 12 months of application



ARC S7 is applied in ducts using airless spray equipment



Bag house protected with ARC S7 in service over 2 years with no failures