

Challenge

Issue

Failing coal tar epoxy coated wastewater tanks require maintenance and relining every 18 months. Pitting corrosion requires patch weld repair.

Goals

- Extend maintenance painting to >60 months
- Reduce pitting corrosion and patch weld repairs

Root Cause

Acidic wastewater attacks coating and leads to pitting corrosion of steel.



One of four tanks to be lined

Solution

Preparation

- Decontaminate surfaces
- Grit blast to Sa 2.5 and 3 mil (75 µm) angular profile

Application

1. Spray apply two coats of **ARC S2** in alternating colors @ 25-30 mils (650-750 µm) total thickness



Failed coal tar epoxy coating

Results

Client Reported

- In total 4 tanks were lined
- Inspection after 8 years showed no damage
- Tanks were relined at 15 years

Cost Savings

- Customer estimates \$75,000 per year based on lifetime: 10+ yrs. vs. previous 1.5 yrs

\$=USD



ARC S2 spray applied with airless system