

Challenge

Issue

Sever pitting corrosion in tank floor and heavy corrosion scale created suspended particles that clog cooling system requiring frequent and costly clean outs. A new tank was purchased after 6 years.

Goal

- Protect new tank from future attack
- Prevent scale and corrosion deposits from clogging system

Root Cause

Glycol and water based coolant corrode carbon steel tank.



Heavy pitting corrosion in glycol water tank

Solution

Preparation

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

Application

1. Apply **ARC 858** to entire floor and weld seams to fill pitted regions
2. Two coats of **ARC S7** applied as chemically resistant topcoat



Applying ARC 858 to resurface and fare smooth pitted surface

Results

Client Reported

Unlined tank replacement (6 year life): €15,000
 ARC Materials and labor (>12 years): -€ 8,000

Amortized life of unlined tank: € 2,500
 Amortized life of ARC tank: € 666
 Net savings over 12 years: €22,000

Incremental savings €3,500 with improved corrosion control and elimination of cleaning.



Completed tank internals