

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.

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

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 \in 3,500 with improved corrosion control and elimination of cleaning.



Heavy pitting corrosion in glycol water tank



Applying ARC 858 to resurface and fare smooth pitted surface



Completed tank internals

Technical data reflects results of laboratory tests and is intended to indicate general characteristics only.

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