

Challenge

Issue

Failure of rubber lining in <3 years causes blockage of downstream atomization nozzles and requires costly unscheduled shutdowns.

Goals

- Reduce risk of delamination and blockage
- Increase MTBR to >3 years

Root Cause

12-15% limestone slurry undercuts rubber lining, leading to delamination. High chloride slurry attacks exposed metal.

Solution

Preparation

- Use new rubber liner to make template
- Remove old liner
- Grit blast to Sa 2.5 with 3 mils (75 μ m) angular profile

Application

1. Use ARC BX2* to rebuild initial thickness of removed rubber liner to 1-1.5" (25-38 mm)
2. Apply ARC MX1 @ .25" (6.4 mm) to ARC BX2*, using template to screed surface to original dimensions

*ARC BX2 is the "Bulk" package size of ARC 897

Results

Client Reported

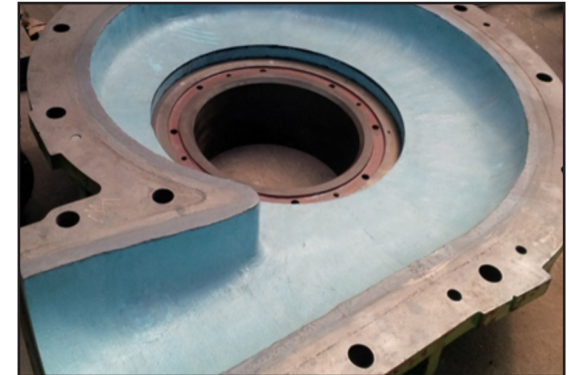
- No unscheduled outages to clear blocked atomization nozzles after >4 years
- Inspection at 4 years showed >80% of ARC lining thickness remaining with no undercutting
- Cost of ARC lining was 80% of rubber liner replacement
- ARC coating is easy to repair in field



Existing rubber liners



Damaged liner removed from casing



ARC-coated casing