

Challenge

Issue

Uncoated concrete neutralization pit for boiler feed water treatment required protection against dilute acid used in demineralization process.

Goal

- Provide long-term protection of the concrete

Root Cause

As part of the demineralization process, pits, drains, and plinths are exposed to flush water with HCl and NaOH.

Solution

Preparation

- Allow concrete to reach full 28 day cure
- Mechanically scarify surface to CSP3 finish

Application

1. Apply **ARC 791** coating to mild areas of exposure @ .250" (6.4 mm)
2. Apply **ARC 988** coating to aggressive areas of exposure @ .250" (6.4 mm)

Results

Client Reported

ARC was in service for 5 years without problem until plant was closed for economic reasons.



Concrete protected with ARC 791 and ARC 988



ARC specified by plant engineer



Environmental conditioning required during application