

Challenge

Issue

Severe corrosion to failing acid brick lined concrete basin resulted in leaks and environmental fines

Goals

- Avoid future fines and return basin to chemical resistant status

Root Cause

Sulfuric and hydrochloric acids degrading mortar and grout lines

Solution

Preparation

- Old acid brick was removed as well as damaged concrete.
- Surfaces abrasive grit blasted and alkaline washed

Application

- Cementitious mortar used to re-surface damaged concrete
- All surfaces coated with 2 coats of **ARC CS4** at 15-20 mil (375-500 μm)/coat

Results

Client Reported

- Repairs carried out over 2 week period
- Basin operated for 6+ years before repairs were required

Acid brick estimate	\$ 150,000
ARC lining	\$ 47,000
Savings	\$ 103,000

\$=USD



Basin in petrochemical complex



Surface preparation



ARC CS4 final application