

Challenge

Issue

Current coatings used in chemical storage areas were failing within 2 years of application. Exposed concrete results in increased risk of environmental spills.

Goal

Provide no less than 2 years of protection to concrete infrastructure, reducing risk of environmental spill.

Root Cause

Continuous exposure to 54% H₃PO₄ attacks cement paste in concrete leading to concrete degradation.



ARC 988 coated pump base: good condition after 4 years

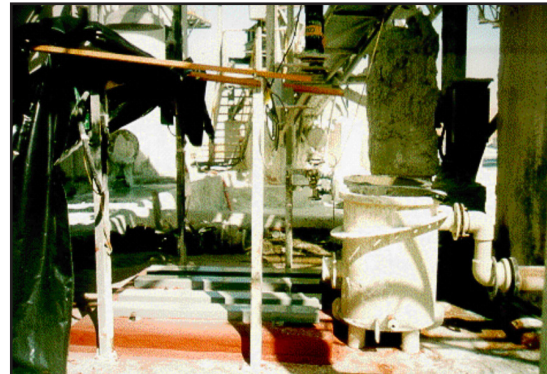
Solution

Preparation

- Neutralize and thoroughly scarify concrete

Application

1. Trowel apply 6 mm (.25") of ARC 988 system
2. Recut expansion joints and fill with chemically resistant joint sealant



ARC 988 coated processing areas

Results

Client Reported

- Coating performing without failure for >3 years
- Based on success, a further 10,000 m² (100,000 ft²) has been coated with ARC products

Benefits

- Protection of concrete containment
- Reduced risk of environmental spills and associated fines



ARC 988 coated floor areas