

Challenge

Issue

A water treatment plant had concrete floors damaged due to chemical spills which were unsafe for workers. Size: 130 m² (1400 ft²)

Goals

Repair concrete floor and protect from future spills.

Root Cause

A caustic solution of Sodium Hydroxide (46%) and Hydrochloric Acid (30%) occasionally spills onto the floor, damaging the concrete.



Before: damaged concrete.

Solution

Preparation

- Decontaminate surfaces.
- Mechanically roughen to CSP3 finish.

Application

ARC NVE VC was applied by roller and applied at an average thickness of 30 mils. This two-layer coating system protects against a wide range of concentrated acids, organic solvents, and alkalis.



In progress: ARC NVE VC being applied.

Results

Client Reported

Client was extremely satisfied with the chemical resistance provided by ARC NVE VC and decided to coat other areas in the plant that were also exposed to chemical attack.



After: floor coated with ARC NVE VC.