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Project: WWTP Containment Area Protection against Sulfuric Acid



The Problem

The original coating, which had been applied to a containment area at this water treatment plant had failed following an incident, when a valve had leaked and 3.26 quarts of 95% sulfuric acid had spilled onto the containment area lining.

As can be seen from the photograph, the sulfuric acid had caused severe damage to the coating and had eaten away at the concrete.

This had given rise to serious health and safety concerns. The client required a high performance coating that would be capable of containing a spillage in the unlikely event of any future plant failure, until the area could be decontaminated.

Solution

The substrate was lightly abrasive blasted cleaned to remove the existing coating, after which concrete repairs were made using Floor-Tech PR. Floor-Tech SP Primer was then applied to the entire containment area prior to the application of our two component, solvent-free epoxy coating Chemi-Tech UC.

Chemi-Tech UC offers exceptional resistance to chemical attack even under permanent immersion conditions in up to 98% sulfuric acid. It is ideal for the long-term protection of tanks, pipe work, containment areas and dykes.



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