Project Case Study

Project

Correctional Facility
Large Scale Kitchen

Powder Coated Aluminium Arrowhead

Coving System

Polyurethane Self Levelling Epoxy
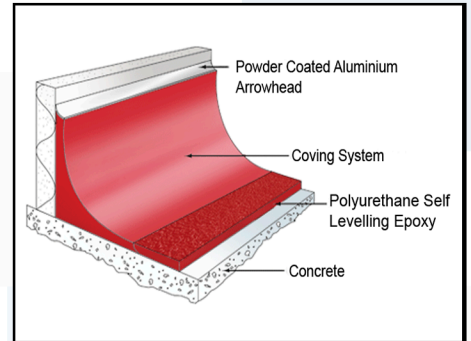
Concrete

Project Summary

Substrate

Tiles over concrete screed

Surface Preparation

Scabbling & Concrete Grinding

System

Self Levelling Polyurethane Mortar

Project Description

Poly-Tech Industrial Services was contracted directly by the correctional facility operator to provide a specification for a durable floor finish within their large commercial kitchen. The existing tiles were in need of replacement as over time many had cracked and broken away allowing for the ingress of water to the concrete substrate allowing the tiles to become drummy and lift, creating an unsafe environment for food preparation. The specification called for a product that could handle extreme cold (ie fridges, freezers), extreme heat (ovens & dishwashers), and wet areas. It needed to be slip resistant, but above all the most critical factor was the long term durability and resistance to excessive traffic and ensuring minimal future disruptions to the facility.

The solution was to remove the tiles and to preparation the substrate by grinding and scabbling. The floor was inspected for any structural defects and minor crack repairs. The hand formed coves were installed at the floor and wall junctions to provide ease of cleaning and ensure that water did not pond under the benches.

With exposure to heavy traffic, fats and oils Poly-Tech came to a decision that a self levelling polyurethane mortar was the best option for this project as it met all of the requirements for the facility with the added advantages of low odour and fast cure whilst also meeting the stringent HACCP criteria.
The specified system provided an aesthetically pleasing, hygienic surface with a non slip finish compliant with Australian Standards. The detailing of the specification took into account such issues as additional temperatures around ovens where a thicker application was installed.

The concrete protection & restoration specialists
South Australia, Queensland & Northern Territory