



Chemical Bund, Lancashire

ACC Flooring was asked by a long standing client in the chemical industry to solve a problem with an external chemical bund which contained acid and alkaline. The existing resin floor finish had failed and in addition rainwater was pooling in several areas. There were also unprotected plinths which required dressing. A large tank wall was also showing signs of protection deterioration.

The failed resin floor finish was uplifted by using kango's to expose the concrete substrate which was then mechanically prepared with vacuum enclosed diamond grinders.

A laser level was run over the 60m² floor area to ascertain a datum to enable a heavy duty polymer modified cementitious screed to be installed to falls. The purpose of installing a screed was to eliminate any water pooling ensuring that both rainwater and chemical spillages ran into the drainage outlet.

The coving and unprotected plinths were dressed with a seamless polyurethane mortar which is specifically designed for vertical surfaces and radius cove detail. This product also benefits from durability and abrasion properties and when sealed being chemical resistant to a wide range of commonly used chemicals such as concentrated citric acid, spirit vinegar (50% acetic acid), lactic acid, methanol and ethanol, in addition to offering protection to a wide range of inorganic acids, fuels, hydraulic oils, mineral oils and solvents. The plinths and coving were sealed with a water based polyurethane coloured grout which is also designed to seal any pin holes and voids.

The tank wall was protected with a coat of MasterSeal P770 Primer followed by 2 coats of MasterSeal M790 highly chemical resistant, crack bridging Inorganic Polyurea Composite Membrane for waterproofing & protection to concrete structures in harsh conditions. This product is ideal for waste water treatment plants both in the inflow and outflow areas, sewage effluent pipelines, biogas plants and secondary containment.

Once the cementitious polymer modified screed had cured, a heavy duty polyurethane screed was applied at a thickness of 6mm. The trowel applied product has very high chemical resistance properties, is seamless providing a fully sealed surface, has high abrasion properties and is slip resistant and provides the perfect finished floor surface in any chemical bund.

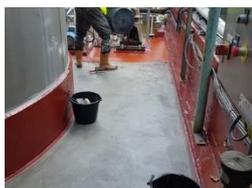
The client was delighted with the finished appearance which should give a regular cleaning and maintenance programme have a life expectancy of in excess of 10 years.



Project Type:
Industrial

Installation Type:
Heavy Duty PU Repair Mortar

Finish Type:
FeRFA Type 3 & 8



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