

Guangzhou Datansha No.5 pump station

Case study 2012

Focus products: Intercrete® 4801, Intercrete® 4840

Location: Guangdong Province, China

Project owner: Guangzhou Datansha

Project size: Total area 4,500m², volume 45,000kg

Background

Concrete is vulnerable in a waste water environment. Without protection chemicals attack the concrete matrix causing premature degradation of the substrate which can then lead to costly and disruptive repairs. The concrete in Guangzhou Datansha pump station was severely eroded after just 6 years in service.

A repair and protection solution was urgently needed. However due to its central location, cost of shutdown was approximately 900,000 CNY (€109,000) per day to the local authority. Access and ventilation were a problem making it impossible to dry the concrete sufficiently to apply a conventional coating system.



The solution

Intercrete provided the complete solution. Intercrete 4801 is a high build repair mortar that allowed the applicator to reinstate the damaged concrete rapidly in a single layer, most competitor materials would require at least two. Intercrete 4840, a water-based high performance cementitious coating, was applied directly onto the damp substrate to provide a long term protective solution.

Intercrete's ability to provide premium performance and fast return to service ensured it was the ideal system to meet the customer needs.