

Shenzhen Houhai wastewater channel

Case study 2012

Focus products: Intercrete® 4850, Intercrete® 4840

Location: Shenzhen Houhai, China

Project owner: Shenzhen Houhai pump station

Project size: 600-700m² (10,000kg)

Background

A vital water channel attached to the Shenzhen Houhai Pump Station collapsed due to chemical attack on the supporting concrete.

The owner required a fast and long term solution to return the asset to service. A new concrete channel was constructed and this time Intercrete was used to provide lasting protection in a challenging environment.

The solution

Fast return to service was required to minimise costs and disruption for the owner. The Intercrete system offered a simple and cost effective solution due to its ability to be applied to damp and concrete that is not fully cured.

A new concrete channel was constructed 2.5m height x 3m width and a total length of 60m. After removal of all surface laitance and other contamination Intercrete 4850, easy apply water based acrylic primer, was used on the floors to minimise the effects of out-gassing. Following that, two 1mm coats of Intercrete 4840, an advanced epoxy and polymer modified cementitious coating were applied.

Intercrete 4840 was ideal for the application due to its enhanced chemical resistance, waterproofing properties (can resist up to 10 bars +/- pressure) and ease of application.

