

Tilbury Syphon sewage treatment works

Case study 2013

Focus products: Intercrete® 4802,
Intercrete® 4840

Location: Essex, United Kingdom

Client: Anglian Water

Contractor: Stonbury Limited on behalf of
Skanska Technology

Summary: Refurbishment and re-lining of
process facilities for the dirty water industry

Background

Anglian Water have an ongoing requirement to maintain the many sumps and syphons which service their sewage treatment works around the region.

The traditional method of upgrading has been to install a precast concrete base unit before backfilling and grouting. To achieve a fast turn round on projects, historically epoxy resin mortars have been used with epoxy paint systems applied to protect the new precast units. With the twin objectives of cost reduction and the desire to move away from the use of hazardous materials, alternative methods were evaluated.

The solution

The prospect of using water-based products held immediate appeal. Intercrete 4802, a Portland cement mortar with rapid setting and high strength properties was used instead of the epoxy mortar. Recognising the advantages of epoxy and polymer cement chemistry, Intercrete 4840 was the specified coating.

Intercrete 4802 and 4840 have proven resistance to H₂S attack, a primer is not required to promote adhesion and there are no fumes released during application. Both products are CE Marked to BS EN 1504.

