

# Thames Water Utilities sewers

Case study 2013

**Focus product:** Intercrete® 4840

**Location:** Bow, London

**Client:** Thames Water Utilities, London

**Summary:** In-situ corrosion protection of metal sections in the sewers of London

## Background

Constructed back in the 19th century, the steelwork in the main chambers of the trunk sewer in East London suffer from advanced corrosion in the permanently damp and acidic atmosphere.

The owner, Thames Water Utilities, sought innovative solutions to arrest the deterioration, and trials were conducted to assess the benefits of Intercrete's advanced cementitious coatings for the protection of metal.



## The solution

Ultimately the favoured product was Intercrete 4840, an epoxy and polymer modified coating with excellent adhesion directly to steel even when there is some residual surface dampness present. To demonstrate the versatility of Intercrete 4840, varying levels of preparation were used, including needle gunning to bright metal and hand wire brushing to remove the bulk of the oxidation. Intercrete 4840 was applied by brush in two 1mm coats with the second coat placed as soon as the first was stable. The areas were then left for eight months before examination revealed that passivation had occurred, preventing further corrosion.