



# SIKA AT WORK

## SEWAGE PUMPING STATION, WISBECH, UK

CONCRETE PROTECTION: Sikagard®-7000 CR

BUILDING TRUST



# SHAFT LINING OF SEWAGE PUMPING STATION



## PROJECT DESCRIPTION

Project name: Sewage pumping station shaft  
Location: Wisbech, United Kingdom

A concrete shaft installed approximately 30 years ago, had suffered biogenic sulphuric acid corrosion and required replacing. A new precast shaft was installed within the existing structure. The new shaft required a protective coating that would be resistant to this form of anaerobic bacterial attack.

## PROJECT REQUIREMENTS

Once the new shaft had been installed the internal joints and any blow holes present required filling to ensure a pin hole free surface could be attained. The contract required a cementitious levelling mortar with a fast return to service time to reprofile the concrete surface. A moisture tolerant primer was required that could be applied onto a hardened mortar with a high relative humidity. A moisture tolerant, flexible top coat was required with a proven resistance to biogenic sulphuric acid attack.

## SIKA SOLUTIONS

The concrete surface was grit blasted and washed down with water to remove all contaminants. Sikagard®-586 levelling mortar was applied at 5 mm thick to re-profile the concrete surface. After 3 days

Sikagard® P 770 primer was applied by roller, followed by two coats of Sikagard® M 790 top coat in grey, applied by roller on consecutive days. A hot air blower was used to remove any condensation on the concrete surface during the coating process.

## CUSTOMERS BENEFIT

SikaTop®-586 Seal can be applied to damp concrete and can be over-coated after 3 days. Sikagard® P 770 primer can be applied onto a solid, surface dry but damp; concrete or repair mortar. Sikagard® M 790 will resist biogenic sulphuric acid attack whilst remaining flexible to accommodate future movement or vibration from the transfer of waste water.

## PROJECT FACTS AT A GLANCE

- Waste Water Pumping Station Shaft in Wisbech
- Reprofiling of concrete surfaces
- Xolutec technology
- Moisture tolerant Primer and Topcoat applied; resistant to biogenic sulphuric acid attack

## PROJECT PARTICIPANTS

Project Owner: Anglian Water  
Applicator/Contractor: Stonbury

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**SIKA SERVICES AG**  
Tueffenwies 16  
CH-8048 Zurich  
Switzerland

**Contact**  
Phone +41 58 436 40 40  
www.sika.com

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