



SIKA AT WORK

WASTEWATER MANHOLE CHAMBER, NORWICH, UK

CONCRETE PROTECTION: Sikagard®-7000 CR

CONCRETE REPAIR: SikaEmaco® N 5200

BUILDING TRUST



WATERPROOFING AND CONCRETE PROTECTION OF CHAMBER WALLS



PROJECT DESCRIPTION

Project name: Wastewater Manhole Chamber
Location: Norwich, United Kingdom

The wastewater manhole chamber had shown signs of biogenic sulphuric acid corrosion which had eroded the concrete lining. The structure required the concrete to be relevelled and protected with a coating resistant to this form of attack from anaerobic bacteria.

PROJECT REQUIREMENTS

The contract required the removal of all existing contamination back to sound concrete. The contract required a cementitious levelling mortar with a fast return to service time to re-profile 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 corrosion.

SIKA SOLUTIONS

The concrete surface was treated with high pressure water to remove all contaminants. SikaEmaco® N 5200 cementitious rapid setting levelling mortar was applied at 5 mm thick to reprofile the concrete surface. After 3 days Sikagard®-7000 CR system was applied: Sikagard® P 770

primer, followed on consecutive days by 3 coats of Sikagard® M 790 top coat, initially Red, followed by two coats of Grey. Before each primer or top coat was applied a hot air blower was lowered into the chamber to remove any condensation on the concrete surface.

CUSTOMERS BENEFIT

SikaEmaco® N 5200 can be applied to damp concrete and the rapid setting properties allow over coating with 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 corrosion whilst remaining flexible to accommodate future movement or vibration from vehicular traffic.

PROJECT FACTS AT A GLANCE

- Waste Water Chamber in Norwich
- Repair of concrete surfaces
- Xolutec technology
- Moisture tolerant Primer and Topcoat applied; resistant to biogenic sulphuric acid corrosion

PROJECT PARTICIPANTS

Project Owner: Anglian Water
Applicator/Contractor: SCH Maintenance

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