

**Project:**

Service Reservoir

**Location:**

Sevenoaks, Kent

**Owner/s:**

South East Water

**Applicator/Contractor:**

J Browne

**Market sector:**

Clean Water Industry

**Products used & amounts:**

MasterSeal M 808 grey 250 m<sup>2</sup>

MasterSeal 586 incorporating

MasterSeal 600 360m<sup>2</sup>

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## Service Reservoir, Kent

Protection of steel columns & waterproofing of concrete walls



Our reference in Kent (United Kingdom): Service Reservoir

### The background

This service reservoir in Kent is over 100 years of age and consists of mass concrete walls with steel columns supporting the concrete roof. The steel columns required a protective coating to prevent corrosion and the walls required re-levelling to a smooth profile.

### The challenge

The contract required the removal of all existing contamination back to sound concrete. A coating with a fast return-to-service time to protect the steel columns from corrosion. A cementitious levelling mortar with a fast return to service time to re-profile the concrete surface.

All materials to be Regulation 31 approved for use in contact with potable water.

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# Service Reservoir, Kent

## Protection of steel columns & waterproofing of concrete walls



Our reference in Kent (United Kingdom): Service Reservoir

### Our solution

The concrete surface was treated with high pressure water to remove all contaminants. The steel columns were grit blasted to remove all corrosion products. MasterSeal M 808 was applied in two coats by roller and brush onto the steel columns. MasterSeal 586 incorporating MasterSeal 600 polymer emulsion was applied in one layer of 3mm to re-profile the concrete walls

### The customer's benefit

- MasterSeal M 808 has a rapid return service time of seven days at 7°C, enabling the reservoir to be recommissioned on schedule
- MasterSeal M 808, MasterSeal 586 and MasterSeal 600 are Regulation 31 approved for use in contact with potable water.
- MasterSeal 586 incorporating MasterSeal 600 polymer emulsion applied at 3mm provides a smooth surface to reconstitute the original concrete finish and provide protection from the effects of the water. The rapid return to service time of three days at 3°C ensured there was no delay between completing the re-profiling works and recommissioning the reservoir.

### Projects facts at a glance

- Potable water service reservoir, Sevenoaks
- Preparation of the concrete and steel surfaces
- Regulation 31 approved coating and levelling mortar applied

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