

Project:

Sewage Pumping Station Shaft

Location:

Wisbech

Owner/s:

Anglian Water

Applicator/Contractor:

Stonbury

Market sector:

Wastewater Industry

Products used:

MasterSeal 586
MasterSeal 7000 CR based on
Xolutec technology comprising:
MasterSeal P 770 Primer
MasterSeal M 790 Topcoat
Application area 175m²

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Sewage Pumping Station Shaft, Wisbech

Concrete protection of new shaft lining



Our reference in Wisbech (United Kingdom): Sewage Pumping Station Shaft

The background

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.

The challenge

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 relatively humidity.

A moisture tolerant, flexible top coat was required with a proven resistance to biogenic sulphuric acid attack.

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Our solution

The concrete surface was grit blasted and washed down with water to remove all contaminants. MasterSeal 586 levelling mortar was applied at 5 mm thick to re-profile the concrete surface. After 3 days MasterSeal P 770 primer was applied by roller, followed by two coats of MasterSeal 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.

The customer's benefit

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

Projects 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

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