

Project:
Refurbishment of concrete tanks

Location:
Northern Ireland

Applicator:
Conservation Solutions

Market sector:
Clean Water Industry

Products used:
MasterEmaco S 420
MasterSeal 586
MasterSeal 600

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Water Treatment Works, Northern Ireland

Refurbishment of concrete tanks



Our reference in Northern Ireland (United Kingdom): Water Treatment Works

The background

This water treatment works in Northern Ireland serves the South Antrim area with 400 mega-litres of potable water a day.

Conservations Solutions required a proposal for restoring the concrete tanks, which had corroded significantly throughout the operational life of the asset.

The challenge

The contract required the removal of all contamination back to sound concrete.

A rapid setting cementitious mortar was needed to repair isolate spalled areas of concrete.

A cementitious levelling mortar required to re-profile and protect the heavily pitted concrete surface .

All materials to be Regulation 31 approved for use in contact with potable water with a fast return-to-service time to minimise the down time of the asset.

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Our solution

The concrete surface was treated with high pressure water to remove all contaminants. The concrete surface was repaired using MasterEmaco S 420 incorporating MasterSeal 600 polymer emulsion .

MasterSeal 586 incorporating MasterSeal 600 polymer emulsion was applied to reprofile and protect the concrete surface.

All materials applied in accordance with the IFU.

Benefits to the customer

- The rapid set time of MasterEmaco S 420 enabled the concrete surface to be reprofiled soon after completion of the repairs.
- MasterSeal 586 ensured a quick return to service for the asset due to its return to service time of 1 day at $\geq 10^{\circ}\text{C}$ & 3 days at $\geq 3^{\circ}\text{C}$
- Full system supplied from one company via SDG
- Regulation 31 approved materials applied

Projects facts at a glance

- All products Regulation 31 approved
- Quick return to service for the asset
- Simple application
- Rapid setting mortar for the repairs
- Waterproof render coat used to reinstate the damaged concrete surface

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