

Water Treatment Works, West Wales

RGF filter refurbishment

Project:

Water Treatment Works

Location:

West Wales

Owner/s:

Welsh Water

Applicator/Contractor:

C E Barry

Designer/Architect/Specifier:

Welsh Water

Market sector:

Clean Water Industry

Products used:

MasterSeal 590

MasterSeal 588

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Our reference in West Wales (United Kingdom): Water Treatment Works

The background

This water treatment works in West Wales serves the Cardiff and Newport areas with 180 mega-litres of potable water a day.

As part of an ongoing refurbishment programme, 14 filter beds within the treatment plant were upgraded and tanked.

The challenge

Several of the filter bed tanks had shown signs of water loss over the preceding maintenance period. The sequential construction of the tanks meant diagnosing the causes of the leaks was not possible unless each bank of tanks were decommissioned and drained.

It was important this down time was minimised to allow each bank of tanks to be re-commissioned within the minimum allowable time frame.

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Our reference in West Wales (United Kingdom): Water Treatment Works

Our solution

Cracks within the concrete tanks were chased out with a disc cutter and repaired with MasterSeal 590 rapid setting mortar. The concrete walls and floors of each tank were prepared using a rotary sander and then coated with two coats of MasterSeal 588, Regulation 31-approved flexible cementitious waterproofing slurry applied by brush.

Benefits to the customer

- The use of MasterSeal 590 rapid setting mortar enabled cracks within the concrete to be sealed and coated within a short time frame.
- Each tank was re-commissioned within three weeks of the initial possession time.

Projects facts at a glance

- Upgrade and tanking of 14 filter beds
- Repair of cracks in concrete with rapid setting mortar
- Regulation 31-approved elastomeric waterproof coating applied
- Maximum of three weeks out of service for tank repairs

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