

**Project:**

Sluvad Water Treatment Works  
Phases 1 & 2

**Location:**

West Wales

**Owner/s:**

Welsh Water

**Applicator/Contractor:**

C E Barry

**Designer/Architect/Specifier:**

Welsh Water

**Market sector:**

Water Management Industry

**Products used:**

MasterSeal 590

MasterSeal 588

**Sales Contact:**

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## Sluvad Water Treatment Works Phases 1 & 2 RGF filter refurbishment



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

### The background

Sluvad 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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# Sluvad Water Treatment Works Phases 1 & 2

## RGF filter refurbishment



Our reference in West Wales (United Kingdom): Sluvad 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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