



# SIKA AT WORK

## Water Treatment Works, South Wales

Waterproofing: SikaTop®-588 Seal

BUILDING TRUST



# WATER TREATMENT WORKS, SOUTH WALES



## PROJECT DESCRIPTION

This water treatment works in South 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.

## PROJECT REQUIREMENT

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.

## PROJECT SOLUTIONS

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

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
- SikaTop®-588 Seal, regulation 31-approved elastomeric waterproof coating applied
- Maximum of three weeks out of service for tank repairs

## PROJECT PARTICIPANTS

Owner: Welsh Water

Contractor: C E Barry

Market sector: Clean Water

Sika Products: SikaTop®-588 Seal

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