

# ULTIMATE EXPERIENCE

**TOPROC UW. CHEW MAGNA SEWAGE PUMPING STATION**  
THE ULTIMATE UNDERWATER USE CONCRETE THAT CAN  
REDUCE WASHOUT BY UP TO 50%\*

\*COMPARED TO  
CONVENTIONAL  
CONCRETE

**LAFARGE  
TARMAC**

READYMIX CONCRETE

## ULTIMATE UNDERWATER

Toproc UW is designed for underwater and inter-tidal applications and can reduce washout by up to 50%.

**Product** TOPROC UW (UNDER WATER)

**Client** WESSEX WATER SERVICES LTD.

**Main Contractor** FINE TURRET LTD.

**Project** CHEW MAGNA SEWAGE PUMPING STATION

# TOPROC UW

Toproc UW is a purpose-designed high performance concrete providing significant washout resistance and overall ultimate strength.

## THE CHALLENGE

Clients Wessex Water Services Limited commissioned Lafarge Tarmac to cast a concrete base 1,400mm deep – at the bottom of a 10m deep tank. The concrete had to resist washout during placement because water had to be discharged through a filtration system into a watercourse. They also required a compressive strength of 30N/mm<sup>2</sup> to allow the tank to be pumped out, which would help minimise overall programme time.

## OUR SOLUTION

Toproc UW is a highly cohesive concrete with superb underwater washout resistance. 84m<sup>3</sup> of Toproc UW was placed to a depth of 4m underwater in one pour from a single point in the centre of the tank. During the pour, the water level was stabilised in the water chamber to prevent incoming water disturbing the newly placed concrete at the base together with the Toproc UW still entering the centre of the mass of concrete via the tremie/pump.

## RESULTS AND BENEFITS

Toproc UW allowed a single point placement of the concrete from the centre and achieved an average difference in concrete depth of only 200mm. At 30 hours, test cubes revealed that 36N/mm<sup>2</sup> had been achieved, which allowed the tank to be pumped out just 48 hours after placement, yet still retain its structural strength.



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It's what Britain's built on.