PROVEN PERFORMANCE
TOPROC UW. CHEW MAGNA SEWAGE PUMPING STATION
Toproc UW is a purpose-designed high performance concrete providing significant washout resistance and overall ultimate strength. Designed for underwater and inter-tidal applications and can reduce washout by up to 50%.

THE CHALLENGE
Clients Wessex Water Services Limited commissioned 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/mm² 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. 84m³ 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/mm² had been achieved, which allowed the tank to be pumped out just 48 hours after placement, yet still retain its structural strength.

For more details contact your topproc@tarmac.com or call 0800 1 218 218