

PROVEN PERFORMANCE

NO.1 BLACKFRIARS, SOUTHWARK, LONDON

TOPROC
HS

Product Toproc HS
Client Dunne Building & Civil and Engineering
Main contractor Brookfield
Architect Simpson Haugh / David Bennett
Location Southwark, London
Date of completion 2017

Toproc high strength delivers optimal performance in the most challenging environments. It is proven to outlast conventional concretes in environments subjected to high impact and abrasion

THE CHALLENGE

No.1 Blackfriars is a mixed use, 50 storey development. It comprises of residential apartments, commercial, entertainment and retail space. Tarmac completed 30 storeys by June 2016. Following successful completion of the four storey basement where approximately 25,000m³ of Topflow was supplied, Tarmac were asked to supply 1000m³ of Toproc HS to support the core of the building. From the perspective of concrete, this meant we previously needed to deliver a compressive strength of up to 60MPa. However, the demands of tall building construction today are such that structures need significantly higher compressive strengths, as high as 90MPa, so that we can meet developers' demands.

OUR SOLUTION

Tarmac committed to the project by installing a new Microsilica dispensing system at Kings Cross. This new system was installed to specifically supply One Blackfriars. Tarmac worked closely with the client at the development stage of testing the concrete to ensure that the designed strength was reached.

Toproc HS gains strength in hours, not days and on average, will gain 25N strength in 24-48 hrs.

RESULTS AND BENEFITS

A typical Toproc concrete, when tested, demonstrated that it was capable of increasing the impact until first crack by up to 30 times when compared to a typical RC32/40N concrete.

Tarmac have had a steady relationship with Dunne Group for 4 years and have also supplied Brookfield Multiplex on various sites throughout London. After all the hard work that has gone into to this project, Tarmac have excelled their reputation as a supplier.

The supply to date has reached the specified strengths and all parties involved are happy with the result. Tarmac will continue to supply until 2017.

For more details contact toproc@tarmac.com or call 0800 1218 218

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