

# PROVEN PERFORMANCE

TOPFLOW 50N, PADDINGTON STATION, LONDON  
THE HIGH STRENGTH, SELF-COMPACTING CONCRETE

**TOPFLOW**  
50N STRENGTH

**Product** Topflow 50N strength  
**Client** Costain / Skanska JV  
**Main contractor** Byrne Bros (Formwork) LTD  
**Location** Paddington Station, London  
**Date of completion** April 2015

*Topflow 50N is designed to provide high strength, while creating outstanding visual concrete, finished to the highest grade.*

### THE CHALLENGE

Tarmac was appointed to supply concrete to the new Crossrail station extension project at Paddington. The supply was for the 5 levels of slabs, varying in size that were being built as construction progressed downwards. And finally, a main base raft slab that consisted of 15 pours between 600 - 800m<sup>3</sup>. This posed a significant challenge to Tarmac to supply these large volumes into the Paddington area, with the added challenge of not having our Paddington concrete plant to assist, as this was now out of action whilst a new batching facility was being built. Logistically, navigation to site was difficult via the approved Crossrail routes which included the notoriously busy Euston and Marylebone Roads.

### OUR SOLUTION

Following completion of the C40/50 supplied from our Kings Cross depot with back up from Park Royal, Tarmac then moved on to the Six Flared Head Elliptical columns that will be seen by millions of commuters that use the new station. The architectural specification stipulated no joints thus the neck and head of the column were poured as one unit through a pumping port in the mould. In addition, the architect specified the highest grade of concrete finish therefore the concrete mix design and placement would be critical. In order to guarantee the finish and re-assure the project team, Tarmac embarked on a series of trials at a precast yard in Beckton with the proposed self-compacting Topflow 50N mix.

### RESULTS AND BENEFITS

By carrying out these thorough tests and involving the customer throughout the process, all could be assured that the best mix and service would be supplied, leading to an outstanding visual concrete. The six columns were constructed over a period of 2 months. Each column received the Topflow mix from three lorries that all arrived at the same time on site - this ensured an uninterrupted supply. The columns were completed successfully and Byrne Bros were awarded the Crossrail Quality Award for 'Best in Class' in recognition of the high quality of the completed columns.

For more details contact [topflow@tarmac.com](mailto:topflow@tarmac.com) or call **0800 1218 218**

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