

TOPFLOW

Proven performance

WHITECHAPEL STATION, LONDON

The challenge

East London's vibrant and culturally diverse Whitechapel area is undergoing a transformation as part of Crossrail's £110m project to give a facelift to Whitechapel station. The works which started in 2011 will see the new station act as an interchange between the Crossrail, Hammersmith and City, District and London Overground lines. Work is being conducted within a tightly constrained and highly populated area, with the aim of causing minimal disruption to daily commuters in and around Whitechapel.

Our solution

We supplied all the readymixed concrete for four large pours totalling 3,000m³ that went down throughout the night. Part of the specification had a limit on the core temperature of the placed concrete so we developed a new low heat TOPFLOW mix over a four week period that was used for lining the walls. Due to the highly congested environment and heavily reinforced nature of the structure at Whitechapel station, a product was required that would easily flow through steel structures. The client specified a bespoke blend of our specialist TOPFLOW self compacting concrete.

Results and benefits

TOPFLOW'S rapid, flexible and easy placement means that large volumes could be poured quickly. Separate pours were scheduled in quick succession to enable the "leap-frogging" of pours and minimise the number of stop-ends required, which saved time and helped to create a better aesthetic finish. Each pour provided enough concrete for the full 5.55m height of each retaining wall and had to be completed in one continuous pour. We reacted very quickly to the challenge of providing low heat concrete for the lining walls and we now have a new product in our TOPFLOW range.