

TOPFLOW 40N



# Proven performance

SIGHTHILL PARK RAILWAY PROJECT, GLASGOW

## The challenge

Balfour Beatty had the task of mass filling a disused railway tunnel on behalf of Glasgow City Council. With 80% of the tunnel filled with hardcore and insulation panels, the reality was that putting the workforce in the remaining 1.4m confined space, was not going to be achievable. GCC had specified the remaining void was to be filled with a 40N concrete to withstand the loading's above. With poor access, lighting and working environment Balfour Beatty were looking for a solution.

## Our solution

From receipt of the enquiry, Tarmac quickly instigated a site meeting to allow a detailed view on the challenges the customer faced, and the solution they could offer. The underground tunnel had four bore hole access points and it was quickly determined that a self compacting concrete would be required. It needed to be supplied as one continuous pour, in order to complete the void fill without the need for any manpower entering the tunnel due to safety concerns. Tarmac suggested using TOPFLOW 40N and utilizing their extensive production, technical and on-site expertise of the product, they demonstrated to Balfour Beatty the benefits of this solution.

## Results and benefits

After careful planning, Tarmac's Shettleston plant was set up to deliver the 330m<sup>3</sup>+ pour with the plant dedicated to the supply and 6 trucks allocated for deliveries. The pour was completed in 10 hours which was an exceptional performance and the largest single Topflow pour carried out by the Scotland Sector. The team work involved from Commercial, Shipping, Production and their hauliers is a great example of what can be achieved by Tarmac.

"It is clear that Tarmac are on a different level to their competitors when it comes to organisation and communication." **Gary McLeary - Sub Agent, Balfour Beatty.**