

PROVEN PERFORMANCE

FRODINGHAM VIADUCT, SCUNTHORPE

TOPFLOW
ARCHITECTURAL

Product Topflow Architectural
Client Network Rail
Main contractor Taziker
Sub-contractor Kitchen Civils Ltd
Location Frodingham Viaduct, Scunthorpe
Date of completion March 2016

TopFlow Architectural, the highly fluid self compacting concrete (SCC) that combines an exceptionally high quality finish with ease of placement.

THE CHALLENGE

The Viaduct, first constructed in 1866, provides a vital link to enable coal and steel to be moved to / from the steel works. This link is still in use today.

At one particular section of the bridge the archway had become severely damaged by the weight and constant use of trains running over it.

This damage called for major structural works to be put in place to support the arch and would involve the pouring of concrete to the underside of the arch in a highly restrictive and confined space. A conventional mix wasn't going to be fluid enough to fill the void and it would also have needed extensive external compaction. Tarmac were approached to provide an alternative solution.

OUR SOLUTION

After speaking with Taziker and Kitchen Civils, Tarmac quickly established the requirements and challenges involved in the project.

It was quickly suggested that the best option was to use a self compacting concrete that would be fluid enough to fill the archway from one point, remove the need for external compaction and provide a superior surface finish with virtually no effort.

As a result Topflow Architectural C40/50 mix was proposed. This along with excellent technical support and advice gave Kitchen and Taziker the confidence to progress with the project

RESULTS AND BENEFITS

On the day of the pour Kitchen were supplied with 24m³ of the mix that was pumped into position within the arch from one point. The highly fluid properties of this bespoke mix meant that it filled the arch completely with no voiding and mimicked the form-work exactly with no blow holes or pitting of the surface.

Both Taziker and Kitchen Civils were extremely happy with the results and commented that the help and support throughout had been a big contributing factor to the success of the project. The product fulfilled the exacting requirements and therefore will be used again on the next project.

For more details contact topflow@tarmac.com or call **0800 1 218 218**

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