

PROVEN PERFORMANCE

TOPROC ES. ARSENAL WASTE TRANSFER STATION

TOPROC
ES

Product TOPROC

Client LONDON BOROUGH OF ISLINGTON.

Main contractor SIR ROBERT MCALPINE

Location ARSENAL WASTE TRANSFER
STATION - FIRST FLOOR SUSPENDED SLAB

An Early Strength Readymix Concrete With High Resistance To Abrasion And Wear.

THE CHALLENGE

A first floor suspended slab floor of approximately 6,400 m² and 375mm thick was required by clients, London Borough of Islington, for their waste transfer station. The floor would be exposed to high levels of abrasion and heavy use from front loading machines, so consequently the concrete mix chosen would have to withstand this harsh treatment over the long-term. A maximum wear rate of 0.05mm (ARO.5), assessed in accordance with BS8204-2: 2003 was required, using no surface treatments or curing compounds.

OUR SOLUTION

With a proven history of success in waste transfer station applications, Toproc was recommended to London Borough of Islington as the optimal solution to meet their specification criteria. At the beginning of the project, Toproc was originally suggested as a sacrificial 100mm deep surface topping, yet due to programme constraints, this incredibly strong mix with its high early strength benefits, was used for full depth construction. This provided the client with a high impact and abrasion resistance slab and an opportunity to recover construction time lost.

RESULTS AND BENEFITS

2,400m³ of Toproc combined with a waterproofing admixture was supplied into this project during the spring of 2003 and the concrete was routinely sampled for strength testing. The average compressive strength results achieved were 48.8N/mm² at seven days and 79.3N/mm² at 28 days. Over subsequent years, the floor has withstood the constant heavy trafficking, showing minimal wear, providing a highly efficient floor surface for years to come.

TOPROC

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

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