PROVEN PERFORMANCE

SPORTPARK, LOUGHBOROUGH UNIVERSITY
THE OPTIMUM RAPID SETTING, HIGH EARLY STRENGTH CONCRETE

TOPROC RAPID
**A high early strength concrete designed to significantly increase turnaround and productivity.**

**THE CHALLENGE**
A solution was needed to speed up the construction work at the entrance to Loughborough University, a project comprising four buildings covering a total area of 5,900m² of mixed office and storage space. Due to seasonal weather, the concrete used in the construction of the central core and walls of the building was slow to achieve the strength necessary for formwork to be struck and positioned, leading to a reduction in build rate. Northfield Construction needed a concrete mix with extremely rapid strength gain to keep the project on schedule.

**OUR SOLUTION**
Tarmac had already introduced Northfield Construction to the rapid strength gain benefits of Toproc Rapid in connection to another site with similar issues. It was agreed that Toproc Rapid concrete, which can achieve sufficient strength to support itself after just two hours, represented the optimum solution for the Loughborough University building. Tarmac supplied 22m³ of Toproc Rapid over a three-week period. Two hours after application, mechanical ratcheting of the formwork confirmed that the concrete face was sufficiently cured to hold its own weight and form.

**RESULTS AND BENEFITS**
After 24 hours, test cubes were taken from the site, crushed and analysed. The results confirmed that Toproc Rapid achieved in the region of 36N/mm after 24 hours. This was of sufficient strength for formwork to be struck and positioned, leading to an increase in build rate and putting the project back on schedule.

**TOPROC RAPID**

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