

Bournville College

Concrete admixtures used in construction of a new college



Our reference in Birmingham (United Kingdom): Bournville College

The background

Bournville College in Birmingham, a provider of education and training in the community since 1899, has now relocated to a new £66 million campus in Longbridge on the site of the former MG Rover plant in the south west of the city.

The new campus covers 4.2 acres of land and features a six-storey, 250,000 sq. ft. main building, consolidating Bournville College's three existing campuses. State-of-the-art education facilities with the capacity to accommodate over 15,000 students include a learning resource centre, business school, construction workshop and leisure and sport facilities

The challenge

Architect Broadway Malyan worked closely with the masterplanner, Bournville College and Birmingham City Council to ensure the building maximised its potential as an architecturally prominent landmark building

Project:

Aviva Stadium

Location:

Birmingham

Architect:

Broadway Malyan

Contractor:

Shepherd Construction

Concrete Producer:

Cemex

Market sector:

Ready-Mixed Concrete

Products used:

MasterPozzolith 324N

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Our solution

Master Builders Solutions admixture MasterPozzolith 324N was specified within the Ready-Mixed Concrete used on the project, supplied by Bardon Concrete. MasterPozzolith 324N is a cost-effective water-reducing plasticizer based on lignosulphonate, which disperses and deflocculates the cement particles within a concrete mix.

Contractor Shepherd Construction ensured that the build process was as environmentally friendly as possible by diverting away an average 97.7 % of waste from landfill to be recycled – including hard-core, wood, soil, plastic, plasterboard and scrap.



The customers benefit

- Cost-effective water-reducing plasticizer
- Part of an environmentally friendly solution
- Pozzolith 324N significantly improves the workability and cohesive properties of a concrete, enabling economies in mix designs to be used.

Project facts at a glance

- Architecturally prominent landmark building
- MasterPozzolith 324N: Water reducing plasticizing admixture for concrete