

# The Castle Leisure Centre

## Watertight concrete solution for swimming pool



Our reference in London (United Kingdom): The Castle Leisure Centre

### The background

This state-of-the-art facility was part of a massive redevelopment programme that will transform the Elephant and Castle area of London. The Castle Leisure Centre is a fantastic asset to the local community, providing top-quality leisure facilities. These include a six-lane swimming pool, a learner pool with movable floor and a sauna with steam room.

Built as part of a £20 million redevelopment of Elephant and Castle this facility was built by Balfour Beatty, who appointed JJ Coughlan to carry out groundworks and the construction of the Adult and Learner pools.

### The challenge

The waterproofing design for the pools relies solely on the concrete construction being watertight. This challenge was also an issue for the inspection and plant room also.

### Project:

The Castle Leisure Centre

### Location:

London

### Main contractor:

JJ Coughlan

### Concrete producer:

Euromix Concrete

### Market sector:

Watertight Concrete

### Products used:

MasterLife WP 799

MasterLife WP 910 & 912

### Contact:

Andrew Barlow

Phone: +44 (0) 161 727 6300

[andrew.barlow@masterbuilders.com](mailto:andrew.barlow@masterbuilders.com)

[www.master-builders-solutions.com](http://www.master-builders-solutions.com)

# The Castle Leisure Centre

## Watertight concrete solution for swimming pool



### Our solution

The Master Builders Solutions Watertight System offered an alternative to membranes and built-up treatments: a quicker, more cost-effective and more reliable solution than traditional construction methods.

MasterLife WP 799, is an all-in-one hydrophilic pore blocker with superplasticizing admixtures for concrete. Following the concrete's correct placing, compaction and curing, this single-bag system provides a waterproof structure with minimum effect on the original appearance and texture.

MasterLife WP 910 & 912 system was used to eliminate the risk of water ingress through unavoidable construction joints. Using the MasterLife WP 912 as the adhering sealant for MasterLife WP hydroswellable waterbar, this was a simple solution which was 'fit for purpose'.

### The customers benefit

- MasterLife WP 799 high performance integral waterproofing system was used in the concrete mix for the concrete slab and partial 'canal side' retaining wall.
- All products were supplied by Master Builders Solutions providing a single source system approach with single point liability.
- BBA approved system

### Project facts at a glance

- Fully watertight solution.
- Single-bag system.
- Minimum effect on structure's original appearance