

Amenity housing project

Watertight construction solution for underground parking



Our reference in Coatbridge (United Kingdom): Amenity housing project

The background

CCG (Scotland) Ltd is working with Loretto Housing Association, part of Wheatley Group, to create 28 new social homes for rent, specially designed to meet the needs of older residents. The development will be a mix of two, three and four-bedroom flats, including two properties which will be fully wheelchair accessible.

The homes will give tenants a comfortable living environment that is complimented by a private, south-facing rear courtyard, communal garden space and an underground car park.

The challenge

With the development of the underground car park, the challenge for this project was the risk of water ingress.

A solution was required to eliminate the risk of flooding and damage to this area of the building. With this in mind it was decided to adopt Master Builders Solutions BS 8102 Type B watertight concrete solution.

Project:

Amenity housing project

Location:

Coatbridge

Main contractor:

Henry Construction

Concrete producer:

Express Concrete

Market sector:

Watertight Concrete

Products used:

MasterLife WP 799

MasterLife WP 910 & 912

MasterLife WP 925

MasterLife WP 590

MasterGlenium 123

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Our solution

Master Builders Solutions BS 8102 Type B watertight concrete solution consists of MasterLife WP 799 as the main integral waterproofing concrete additive, with the use of MasterGlenium 123 as the plasticizing component of the mix.

MasterLife WP 910 and 912 were used to eliminate the risk of water ingress through unavoidable construction joints. Using the MasterLife WP 912 as the adhering sealant for MasterLife WP 910, this was a simple solution fit for purpose.

This project took full advantage of Master Builders Solutions BS 8102 Type B watertight concrete solution, utilizing our MasterLife WP 925 combi-pack, which includes hydroswellable rings and plugs for the formwork tie sleeves.

The customers benefit

- Estimated cost saving of approximately £8,000, in comparison to the previously specified system on this project.
- Customer was fully supported on site prior to pours commencing and on the days of the watertight concrete being placed. All with the added security of a 10-year guarantee.
- All products coming from one supplier giving a single source system approach with single point liability.
- BBA approved system

Project facts at a glance

- Underground Basement car park completed with Master Builders Solutions BS 8102 Type B watertight concrete solution
- Water ingress visible through retaining pile prior to casting of waterproof concrete wall sections
- Three pours in total
- Cost saving to the customer
- BBA approved system

