

CASE STUDY

DECK WATERPROOFING

St Georges Hill, Surrey

NEW-BUILD DECK WATERPROOFING

Newton Acriflex Winter and Newton NuSeal-LM applied to a new podium deck/balcony and terrace

Project Details

Newton Specialist Basement Contractor CCL were commissioned by Redbridge Building Contractors to design, supply and install a comprehensive structural waterproofing system to their luxury new build property in St Georges Hill in Surrey.

Methodology

CCL installed the Newton System 500 internal Type C Cavity Drain Membrane system to the Type B reinforced concrete box structure to provide a combined waterproofing solution as recommended for habitable accommodation in accordance with BS8102:2009. The internal drained cavity system offers the ultimate contingency plan to capture any water ingress that may occur through the joints in the concrete structure.

CCL installed the Newton Titan-Pro sump system, complete with full battery backup protection. To offer a complete waterproofing approach CCL designed and installed Newton Acriflex to all the interlinked balconies and terraces throughout the development. Acriflex is a twin component flexible acrylic waterproofing system which is applied via roller to the mechanically prepared concrete.

Once prepared, Newton NuSeal-LM was roller applied in two coats to act as a primer and vapour barrier. The Acriflex was applied and Newton 207 DeckDrain double cusped drainage membrane was applied over the Acriflex to protect the waterproofing layer and move any water to designated drainage outlets designed within the podium deck structures. To complete the terrace areas stone paviours were laid on a 50mm sand blinding layer.

Testimonial

"Overall CCL were extremely pleased with how all the elements of the water management system through to the waterproofing went especially the podium waterproofing on such a high profile project that had some extremely intricate detailing and highly specified finishes. We are currently specifying Newton Acriflex Winter as one of our preferred premium podium/terrace waterproof membranes" Jamie Tschumi - Director CCL

NSBC Contractor: CCL



The podium deck primed with Newton NuSeal-LM



Newton Acriflex Winter applied to balcony providing a seamless waterproofing membrane



Newton Acriflex Winter applied to the finished terrace

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Featured Products

NEWTON SYSTEM 500

Maintainable Cavity Drain System Comprising Waterproof Membranes, Drainage, and Pumps

The professional's "waterproofing system of choice", Newton System 500 is an internally applied waterproofing system based upon Newton's extensive range of cavity drain membranes, drainage conduits and sophisticated pumping and control systems. It is a maintainable system, so complies with BS8102 Code of Practice for Protection of Structures Against Water from the Ground.

Newton recommends that our structural waterproofing systems are installed by one of our Nationwide Network of Newton Specialist Basement Contractors (NSBC)

NSBCs have been trained by Newton and can offer full professional indemnity on design and insured backed guarantees on the installation.



Components of Newton System 500

	
	

NEWTON NUSEAL-LM

Damp Proofing and Gas Control Membrane

Newton NuSeal-LM is a single component, high performance, elastomeric liquid rubber membrane specifically designed to provide a radon, gas and vapour barrier to vertical and horizontal surfaces. It is a water based compound, formulated on a styrene-butadiene copolymer.

Typical Applications:

- Radon, Gas & Vapour barrier to walls and floors of concrete, masonry and brick substrates
- Vapour control layer below insulation in warm roof
- Vertical waterproofing membrane when used with Newton 410 Geodrain vertical drainage membrane
- As a primer for concrete and steel prior to adhesion of Newton WaterSeal Tape, WaterSeal Rope and Overtape within Newton System 500 installations
- Simple to apply DPM to existing damp floors
- Window reveal DPM used in conjunction with Newton System 500. Broadcast builders sand onto the still tacky NuSeal-LM to provide a key for plasters and renders

Newton Multi-Use Products



Newton Nuseal-LM

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Featured Products

NEWTON 207 DECKDRAIN

Double Cusped, Deck and Flat Roof Drainage Membrane

Double cusped, deck and flat roof drainage membrane, that incorporates a non-woven geotextile filter layer, bonded to a water impermeable HDPE (High Density Polyethylene) core. The unique double cusped design provides two layers of drainage; allowing for primary drainage through the geotextile filter, as well as secondary drainage between the underside of 207 DeckDrain and the primary waterproofing layer.

Typical Applications:

As the drainage layer above a deck, balcony or flat roof waterproofing membrane such as Newton Acriflex Winter, particularly where:

- Block pavements or flooring slabs are bedded on sand as the surface finish
- Soil filled planters are included to the deck or flat roof
- An Intensive Green Roof is planted to the deck or flat roof

Also suitable for use as a vertical drainage layer when used as part of a professionally designed and installed externally applied basement waterproofing system. NuSeal-LM to provide a key for plasters and renders



NEWTON 201 ACRIFLEX WINTER

Waterproofing of Decks, Car Parks and Swimming Pools

Newton 201 Acriflex Winter is a two component waterproofing liquid membrane based on cement, water based acrylic resin, for the waterproofing of podium decks, flat roofs, balconies, parking areas and terraces. Newton 201 Acriflex Winter provides a flexible and durable, multi-layer, reinforced, seamless waterproofing membrane and can be used below a drainage membrane such as Newton 207 DeckDrain or 220 Reservoir or with a variety of direct finishes.

Typical Applications:

- Waterproofing of podium decks, balconies, flat roofs, terraces, balconies, and car parking areas
- Restoration of old bituminous membranes in combination with Newton WATstop
- Restoration of ceramic surfaces in combination with Newton Grip Primer

