



External Waterproofing With Newton 403 HydroBond

## Project Overview

Crest Nicholson were responsible for the development of Park Avenue in Sunbury-on-Thames, a combination of 193 apartments and spacious executive homes. The site was the old training grounds for London Irish Rugby club.

## Methodology

Newton 403 HydroBond was applied to this development to provide a complete waterproof envelope to the structure to provide a Type A (barrier) waterproofing solution suitable for Grades 1, 2 and 3 as defined by BS 8102:2009.

HydroBond is a very high performance composite sheet membrane that features a locking fleece to one side and a polymer hydrophilic coating to the other.

## Benefits

- *HydroBond is suitable for use around below ground reinforced concrete structures, and the self-healing and fully bonded membrane protects the slab from water ingress via shrinkage cracks*
- *Heavy objects can be placed on top of HydroBond. If the membrane is damaged/ punctured by 10mm or more a simple repair can be made by applying a patch and securing with HydroBond tape*
- *Once HydroBond has been laid on to the oversite substrate, reinforcement steel can be placed on top ready for the concrete*

## Testimonial

*"Newton HydroBond is a very robust, unique and easy to install system. Newton Waterproofing Systems provide training and backup where needed, which ensures the product is installed correctly, and makes certain that the final structure is fully waterproof. The directors and staff at Newton are helpful, friendly and very co-operative. I would not hesitate to recommend this superior product to our clients on future developments"* - Paul Dennison, Buxted Construction

## Project Details

**Client** - Crest Nicholson

**Contractor** - Buxted Construction

**Project Size** - 2,000 m<sup>2</sup>



Heavy objects can be placed on top of HydroBond



Reinforcement steel can be placed on top of the HydroBond ready for the concrete to be placed

## CASE STUDY

# Park Avenue Housing Development STRUCTURAL WATERPROOFING



## Details



*For good practice, concrete spacers are placed on top of the 70mm lap to reinforced this joint*



*When placed below a new raft, the poured concrete engages into the locking fleece*

## Featured Product

### NEWTON 403 HYDROBOND

Hydrophilic Fully Bonded Membrane for Raft and Wall Waterproofing

Newton 403 HydroBond is a very high performance composite sheet membrane that features a locking fleece to one side and a polymer hydrophilic coating to the other side. It is suitable for application under reinforced concrete rafts and pre-application to reinforced concrete retaining walls.

When placed below the new raft or against the wall shuttering, the poured concrete engages into the locking fleece so that the membrane is completely locked in and monolithic to the concrete. This ensures that if a leak did occur it cannot track to the construction joints. The hydrophilic coating seals small holes that may be accidentally formed during fixing of the reinforcing steel or the pouring or compaction of the concrete.

Newton 403 HydroBond is supplied in rolls of 1m x 20m

### Newton System 400 External Waterproofing



*Newton 403 HydroBond*