# J40 Flexible sheet waterproofing/ damp proofing

### To be read with Preliminaries/ General conditions.

### 112 HARDCORE BEDS

* Preparation: Substrate must be regular and smooth with no gaps or voids greater than 12mm Substrate can be:

Compacted Type 1 Hardcore

Concrete blinding

Compacted sand

* The following can be placed above the blinding or hardcore prior tthe installation of 403 HydroBond:

Void former

Clay Heave Board

Closed cell flooring grade insulation

Newton 410 Geodrain

### 297A WATERPROOFING MEMBRANE

• Manufacturer: Newton Waterproofing Systems Ltd

Web: www.newtonwaterproofing.co.uk

Email: info@newtonwaterproofing.co.uk

Tel: +44 (0)1732 360095

Address: Newton House, 17-19 Sovereign Way, Tonbridge, Kent TN9 1RH.

• Product reference: Newton 403 HydroBond™

• Product code: [HB-2]

• Product thickness: [1.7mm]

• Bonding: Fully bonds to the poured in-situ structural concrete by means of a locking fleece.

• Laps: Side and end laps 75mm minimum.

• Substrate:

Vertically: Permanent formwork, such as protection boards, rigid insulation king post walls, secant plied walls,

contiguous piled walls with stable fill between joints, sheet piles and the adjoining structure or as recommended by the manufacturer.

Horizontally : as recommended by the manufacturer.

Compacted Type 1 Hardcore

Concrete blinding

Compacted sand

The following can be placed above the blinding or hardcore prior to the installation of 403 HydroBond:

Void former

Clay Heave Board

Closed cell flooring grade insulation

Newton 410 Geodrain

Accessories: to be used in conjunction with HydroBond System as per literature.

Newton HydroBond Tape

Newton 106 FlexProof (J30)

Newton 306 Swellmastic

Newton 314-BP Bentonite Powder

Newton System 300 Range of passive or active waterbars (E40)

Newton 410 Geodrain (J40 295)

## WORKMANSHIP

### 310 WORKMANSHIP GENERALLY

* Condition of substrate:
  + Clean and even textured, free from voids and sharp protrusions.
  + Moisture content: Compatible with damp proofing/ tanking.
* Air and surface temperature: Do not apply sheets if below minimum recommended by membrane manufacturer.
* Condition of membrane at completion:
  + Neat, smooth and fully supported, dressed well into abutments and around intrusions.
  + Completely impervious and continuous.
  + Undamaged. Prevent puncturing during following work.
* Permanent overlying construction: Cover membrane as soon as possible.

### 335A PRIMERS

Not required. The Newton 403 HydroBond is loose laid horizontally and mechanically fixed vertically. The product is hydrophilic and swells to seal around the fixings.

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### 350A ANGLES IN BONDED DAMP PROOFING/ TANKING

* Internal, external corners and wall to slab details are formed by creasing and

folding/ cutting and splicing the 403 HydroBond membrane ensuring a close fit

to the substrate profile avoiding hollows. See manufacturers information.

### 360A JUNCTIONS WITH PROJECTING DPCS/ CAVITY TRAYS

Continuity with DPC's or Cavity Trays may be achieved by using Newton 109-LM, Newton 106 FlexProof or as recommended by the manufacturer.

### 370A PREFORMED COLLARS FOR PIPES, DUCTS, CABLES, ETC

Newton 106 FlexProof or Bentonite Paste BP-14, Newton HydroBond Tape, Newton System 300.

Membrane to be scribed tight to the penetration, alternatively apply pre-cut overlying patches to ensure a minimum

75mm bonded overlap with underlying membrane. Newton 106 FlexProof to be applied around penetration, forming

a fillet to provide a watertight seal between HydroBond membrane and penetration.

### 380A PROTECTION BOARDS FOR DAMP PROOFING/ TANKING

* Coated surface: clean and free from contaminants.
* Protection:

Newton 410 Geodrain (J40 295) - drainage membrane

Newton Fibran 500C (Closed cell insulation)

Protection board (contractor's choice)