# J30 Liquid applied tanking/ damp proofing

### To be read with Preliminaries/General conditions

## TYPES OF TANKING/ DAMP PROOFING

### 110A SEAMLESS RUBBER WATERPROOFING MEMBRANE Newton 108 HydroBond-LM

* Substrate: Concrete of at least 20kN.
* Primer: For a porous substrate. Water catalyst side turned off on spraying machine between 0.1 and 0.3 litres per m2, depending on the porosity.
* Coating: Rubber.
	+ Manufacturer: Newton Waterproofing Systems Ltd.
		- Product reference: HBLM-1/ HBLM-2.
	+ Application: Newton 108 HydroBond-LM sprayed to walls, terminated at DPC at ground level. Where it is not possible to spray due to space or other constraints, Newton 109-LM should be applied by brush or roller.
* Reinforcement: Reinforce static joints with Newton 914-RT.

## EXECUTION

### 205A SUITABILITY OF SUBSTRATE

* Substrates generally:
	+ Smooth, even textured, clean, dry and frost free.
	+ Within tolerances for level and surface regularity.
	+ Vertical and horizontal surfaces: Correctly prepared and free from irregularities.
* Curing period for concrete substrates (minimum): 7 days.
* Moisture content and stability of substrate: Must not impair integrity of finished tanking/ damp proofing.
* Preliminary work: Internal changes in direction: Smoothed with a 45° smoothing fillet of at least 25mm x 25mm, alternatively, changes in direction can be reinforced with Newton 914-RT adhered with 1mm coat of product in preparation for main application of the membrane.
	+ Construction joints: Bed Newton 914-RT into a coat of 1kg/m2 coat of the product ready for the main application of the membrane.
	+ Movement joints: Where slight contraction only is to be expected, Bed Newton 914-RT into a coat of 1kg/m2 coat ready for main application of membrane. Where an open joint exists, this should be designed to suit the extent of expected movement.
	+ Penetrations/ Outlets: Pipe or cable ducts should be reinforced with Newton 914-RT tape or a Newton PipeCollar bedded into 1mm of 108 HydroBond-LM

### 207A PRIMERS Not required unless applied to horizontal surfaces.

* Primer: With porous substrate, the operative may apply a mist coat of the product without the salt catalyst to seal the surface prior to the main application.

Coatings: Apply in dry atmospheric conditions when substrate is dry/damp.

 Uniform, continuous coverage. Do not allow to pool in hollows.

 Firmly adhered to substrate and free from imperfections.

 Prevent damage to finished coatings.

Penetrations: Seal using preformed sealing products and tapes as described above.

Final covering: Apply as soon as possible after coating has hardened.

### 260A JUNCTIONS WITH DPCS

* Dpcs: Flashing overlaps Newton 108 HydroBond-LM to protect from UV damage.
* UV stable finishing: Band of Newton 109-LM Protect or coloured quartz sand within a further tack coat.

Cavities: Newton 108 HydroBond-LM overlapped with Newton 109-LM, terminating at the cavity tray.

## COMPLETION

### 330A PROTECTION OF EXTERNAL COATINGS

* Coated surface: Clean and free from contaminants.
* Board manufacturer: Newton Waterproofing Systems.
	+ Product reference: Newton 410 GeoDrain or Newton 500-C Fibran.

### 340A BACKFILLING TO EXTERNAL COATINGS

* Timing: Carry out as soon as possible after tanking and protection are complete.

Newton 410 GeoDrain: Graded stone placed in controlled layers of no more than 600mm so as to prevent slump to the membrane.

Newton 500-C Fibran: Ensure removed soil is compacted every 600mm.