# J30 Liquid applied tanking/ damp proofing

### To be read with Preliminaries/General conditions

## TYPES OF TANKING/ DAMP PROOFING

### 110A SEAMLESS RUBBER WATERPROOFING MEMBRANE Newton 109-LM

* Substrate: Concrete of at least 20kN.
* Primer: Not required unless applied to horizontal surfaces. Where concrete or screed are aged, very dry and have an open surface, the surface should be dampened prior to application. In some cases, a very thin first coat should be applied prior to the main application.
* Coating: Rubber.
	+ Manufacturer: Newton Waterproofing Systems.
		- Product reference: 109MV/ 109LV.
	+ Application: Newton 109-LM applied 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.
	+ Vertical and horizontal surfaces: Correctly prepared and free from irregularities. Surface porosity should be filled by bag/sack rubbing with a suitable bag/sack rubbing mix or dry sand & cement, Remove all snots and surface irregularities.
* Moisture content and stability of substrate: Must not impair integrity of finished tanking.
* 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: In some cases, a very thin first coat should be applied prior to the main application.

### 210A COATING APPLICATION

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

Surface porosity should be filled by bag/sack rubbing with a suitable bag/sack rubbing mix or dry sand & cement 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, tapes and mastics as described above.
* Final covering: Apply as soon as possible after coating has hardened.

### 260A JUNCTIONS WITH DPCS

* Dpcs: Flashing overlaps Newton 109-LM to protect from UV damage.
* UV stable finishing: Coloured quartz sand within a further tack coat.

Cavities: 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 XPS 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.