# J10 Cementitious mortar tanking/ damp proofing

TO BE READ WITH PRELIMINARIES/ GENERAL CONDITIONS

## TYPES OF TANKING/ DAMP PROOFING

### 110A EPOXY-CEMENTITIOUS COATING Newton WATstop

* Substrate: Concrete, Structural masonry, Ceramic, Steel, Screed, Ferrous metal or PVC.
* Manufacturer: Newton Waterproofing Systems.
  + Product reference: 110.
* Coats (excluding dubbing out):

Primer - 1 coat of 0.22mm

Vapour control layer – 2 coat of 0.22mm

Wall DPM – 2 coats of 0.38mm

Waterproofing – 2 coats of 0.75mm

## MATERIALS AND MAKING OF MORTAR

### 330A MOVEMENT JOINT SYSTEM

* Manufacturer: Newton Waterproofing Systems.
  + Product reference: Newton 106 FlexProof.
  + Application: Apply Newton 110 WATstop down into joint, insert Newton Foamstop and fill with Newton 106 FlexProof.

### 350A MIXING

* Recommendation: Collomix Mixing equipment:
  + up to 65 litres: DLX (preferred) and KR stirrers, matched to the Xo 1 or Xo 4 Hand Mixers.
  + over 65 litres: MKD dual action stirrer is matched to the Xo 55 duo Hand-Mixer.

Three components part A powder, part B liquid & Special cement part C

Paddle mixer

Add water in the percentage of:

10 - 20% of the weight of the product used if applied by plasterer’s trowel;

30 - 40% of the weight of the product used, if applied by brush or roll.

As a mortar for smoothing or repair or to create a 25 x 25mm fillet, do not add water.

### 360A COLD WEATHER

* General: Do not use frozen materials or apply coatings to frozen or frost-bound substrates.
* Air temperature requirements: Do not apply coatings when at or below 5°C.
* Temperature of work: Maintain above 5°C until coatings have hardened sufficiently.

## PREPARING SUBSTRATES

### 410A SUITABILITY OF SUBSTRATES

* Preparation generally: To Newton Waterproofing recommendations.
* Stability and soundness: Free from movement, and loose or weak areas that will cause failure of tanking.
* Key: To achieve firm adhesion of tanking.
* Contamination: Free from previous coatings and contaminants including dirt, dust, efflorescence, mould, oil, paint and plaster.
* Cracks, porous patches and other defective areas subject to water pressure and liable to admit water: Control and seal using Newton 313-WP.
* Laitance: Remove by grinding or grit blasting to reveal sound concrete.
* Openings and chases: Prepared, including sleeves for pipe penetrations and chases to receive waterproofing compounds/ sealants.

### 420A PREPARATION OF MORTAR JOINTS AND CAVITIES

* For block and brickwork construction, the substrate should have flush sound mortar joints.

### 430A TANKING INTEGRITY

* Permitted for resin bolt fixings as per Newton Waterproofing Systems recommendations.

## EXECUTION

### 510A APPLICATION GENERALLY

* Application methods and coating sequence: First coat using a brush, making sure it is evenly coated. Leave for 24 hours Second coat should be applied using brush, roller or trowel. Once touch dry additional coatings (as required) must be applied within 48 hours. For full installation instructions & coverage rates please refer to Newton Waterproofing Systems Ltd. Datasheet.

### 520A JOINTS/ JUNCTIONS AND PENETRATIONS

* Abutments, joints and active cracks: Sealed and watertight.
  + Movement joints: Continue WATstop down into joint, Newton FoamStop should be inserted into the movement joint followed by Newton FlexProof for full instructions please refer to movement joint datasheet.
  + Daywork joints in the concrete: Reinforce with Newton 912-RT.
  + External changes in direction: Apply 45° fillets to all internal angles.
  + Internal changes in direction: Apply Newton 912-RT reinforcing tape.
* Penetrations: (Newton 315 Polymer-Waterbar or Hauff KG-FIX around pipe prior to concrete pour) Newton Pipe collar installed within Newton 106 FlexProof.

### 530 APPEARANCE OF TANKING

* Render/ Screed coatings: Even and consistent. Free from rippling, hollows, ridges, cracks and crazing.
  + Accuracy: A true plane, to correct line and level. Walls and reveals plumb and square with neat arrises
* Thin slurry coatings: Consistent and free from hollows, cracks and crazing. Suitable to receive specified finish.

### 550A CURING AND DRYING

General: At 20°C and 40% of relative humidity level, the product drying time is 24 hours.

### 560A PROTECTION

* Eventual successive coat (smoothers, regularizations, plasters, paints, etc...) must be applied within 48 hours.