# J10 Cementitious mortar tanking/ damp proofing

TO BE READ WITH PRELIMINARIES/ GENERAL CONDITIONS

## TYPES OF TANKING/ DAMP PROOFING

### 120A CEMENTIOUS COATING Newton 107F

* Substrate: Concrete of at least 20KN, Steel, Masonry or screed.
* Product code: 107F.
	+ Application: Squeegee, Roller, Airless spray, Pin Leveller, Brush or Trowel.
* Coats (excluding dubbing out):
	+ Number (excluding primer/ slurry coats): 2 Coats - 1mm per coat, Option: Floor – one coat 2mm.
	+ Total Thickness: 2mm.
* Restrictions: UV stable but may discolour

### 330A MOVEMENT JOINT SYSTEM

* Manufacturer: Newton Waterproofing Systems.
	+ Product reference: Newton 106 FlexProof.
	+ Application: Apply Newton 107F down into joint, insert Newton Foamstop and fill with Newton 106 FlexProof.

### 350A MIXING

* Recommendations:
	+ 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

Shake Part A bottle thoroughly and pour into clean mixing vessel

Add part B (powder) slowly whilst mixing slowly.

Mix for 5 minutes until smooth, entrapping as little air as possible

Continuously scrape sides to prevent lumps forming and to ensure all of part A is mixed with all of part B

Mix for a minimum of 5 minutes and use without delay

Mixes: Of uniform consistency and free from lumps.

### 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 tanking mortar/ admixture manufacturer’s 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.

Laitance: Remove by grinding or grit blasting to reveal sound concrete.

* Cracks, porous patches and other defective areas subject to water pressure and liable to admit water: Control and seal using Newton 313-WP.
* Holes/ Recesses for fixings (where permitted): Prepared to receive fasteners.
* Openings and chases: Prepared, including sleeves for pipe penetrations and chases to receive waterproofing compounds/ sealants.

### 430A TANKING INTEGRITY

* Penetrations for fixings, services, etc: Permitted for resin bolt fixings as per Newton Waterproofing Systems recommendations. .

## EXECUTION

### 510A APPLICATION GENERALLY

* Application methods and coating sequence: Apply the first coat of Newton 107F using a brush, making sure it is evenly coated. Second coat should be applied using brush, roller, airless spray or trowel when the first coat is still green / tacky. Once touch dry additional coatings (as required) can be applied. 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 107F down into joint, Newton FoamStop should be inserted into the movement joint followed by Newton 106 FlexProof for full instructions please refer to 106 FlexProof datasheet.
	+ Daywork joints in the concrete: Reinforce with Newton 912-RT.
	+ Changes in direction: Apply 45° fillets to all internal angles with Newton 203-RM. Internal option: Apply Newton 912-RT reinforcing tape instead of smoothing fillet.
* Penetrations: (Newton 315 Polymer Waterbar or Hauff KG-FIX around pipe prior to concrete placement) Newton Pipe collar installed between two coats of Newton 107F.

### 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: In hot or windy conditions. Prevent premature drying, with the application of Newton 905-CM, a simple to apply liquid curing membrane.
* Curing coatings: Prevent evaporation from surface.

### 560A PROTECTION

* Allow the Newton 107F coating to dry completely before subjecting to light foot traffic. For heavier usage protect with a floor screed.
* Application of protective coatings/ linings: Once touch dry additional coatings (as required) can be applied.

Newton 107F requires protection from the weather elements, until it has reached its initial curing stage.