# J10 Cementitious mortar tanking/ damp proofing

## TYPES OF TANKING/ DAMP PROOFING

## To be read with Preliminaries/ General conditions

### 120A CEMENTITIOUS COATING Newton 103-S

* Substrate: Concrete of at least 20Kn or Steel.
* Coats (excluding dubbing out):
	+ Number (excluding primer/ slurry coats): 2.
	+ Thickness: 1mm per coat or to horizontal surfaces - one coat of 2mm.
	+ Total thickness: 2mm

Application: Brush, roller, airless spray, squeegee, pin leveller or trowel.

Mixes:

* + Primer/ slurry coats: 903P, 908 LiquaBond.

Restrictions: Not UV stable

Ancillaries: Newton 903-P, Newton 905-CM, Newton 912-RT, Newton 107F .

## MATERIALS AND MAKING OF MORTAR

### 330A MOVEMENT JOINT SYSTEM

* Manufacturer: Newton Waterproofing Systems.
	+ Product reference: Newton 106 FlexProof.
	+ Application: Apply product down into joint, insert Newton Foamstop and filled 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
	+ 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. Do not use free-fall drum mixers.
	+ 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

### 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 and falling
* Temperature of work: Maintain above 5°C until coatings have hardened sufficiently.

Do not apply prior to heavy rain.

## PREPARING SUBSTRATES

### 410A SUITABILITY OF SUBSTRATES

* Preparation generally: To Newton Waterproofing Systems recommendations
* Stability and soundness: Free from movement, and loose or weak areas that will cause failure of waterproofing membrane.
* 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 waterproof mortar recommended by the tanking mortar manufacturer.

* 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.

Priming: For horizontal surfaces prime with Newton 903-P.

## EXECUTION

### 510A APPLICATION GENERALLY

* Application methods and coating sequence: Walls: Apply the first coat of Newton 103-S using airless spray machine or brush, making sure it is evenly coated. Second coat should be applied using airless spray, brush, roller or trowel from when the first coat is still green / tacky to up to 6 days.

Horizontal surfaces: Application in either one or two coats using airless spray, roller, squeegee or pin leveller, once touch dry additional coatings (as required) can be applied. For full installation instructions & coverage rates please refer to Newton Waterproofing Systems.

### 520A JOINTS/ JUNCTIONS AND PENETRATIONS

* Abutments, joints and active cracks: Sealed and watertight.
	+ Movement joints: Continue 103-S down into joint, Newton FoamStop should be inserted into the movement joint followed by Newton 106 FlexProof for full instructions please refer to movement joint datasheet.
	+ Daywork joints in the concrete: Reinforce with Newton 912-RT reinforcement tape.
	+ External changes in direction: Apply 45° fillets to all internal angles with Newton 203-RM
	+ Internal changes in direction: Apply Newton Newton 912-RT
* Penetrations: (Newton 315 Polymer Waterbar around pipe or Hauff KG-FIX prior to concrete pour) Newton 103-S continues onto pipe. Once cured apply 106 FlexProof around pipe lapping onto both pipe and substrate.

### 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.

### 560 PROTECTION

* Allow the Newton 103-S 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 103-S requires protection from the weather elements, until it has reached its initial curing stage.