# J10 Cementitious mortar tanking/ damp proofing

TO BE READ WITH PRELIMINARIES/ GENERAL CONDITIONS

## TYPES OF TANKING/ DAMP PROOFING

### 130A PROPRIETARY CRYSTALLIZATION ACTIVE MORTAR Newton 104

* Substrate: Reinforced Concrete to BS EN 1992 (Eurocode 2) .
* Manufacturer: Newton Waterproofing Systems (a trading name of John Newton & Co. Ltd.)

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	+ Product reference: 104.
* Coats:
	+ Number: one.
	+ Thickness (overall): 1kg per m².

## MATERIALS AND MAKING OF MORTAR

### 350A MIXING

* + When applied to still green concrete to horizontal surfaces, the product is administered as a dry powder and so no mixing is required.- Batching: By volume. Use clean and accurate gauge boxes or buckets.
	+ When applied to hardened concrete, mix with water as a carrier and brush apply as a slurry.Factory-made preblended constituents: Mix using methods recommended by the coating manufacturer.
	+ A paddle mixer is required if applied as a slurry. Mixing ratio is 5 parts Newton 104 to 2 parts water by volume.
	+ Specialist spraying equipment is required for the spraying of Newton 104.

### 360A COLD WEATHER

* General: Do not use frozen materials or apply coatings to frozen or frost-bound substrates.
* During the curing period the surface of the concrete treated with Newton 104 must be protected from frost, rain and standing water.

Do not apply Newton 104 at temperatures below 5°C.

## PREPARING SUBSTRATES

### 410A SUITABILITY OF SUBSTRATES

* Green concrete: Concrete should be firm enough to walk on and leave a footprint.
* Hardened Concrete: Clean concrete with reinforcement to BS EN 1992 (Eurocode 2) with crack mitigation to 0.3mm.
* Open capillary system
* Remove laitance, loose material, dust, dirt, oil, grease, general grime and contaminants by jet washing, grit blasting or scabbling.

Evidence of fungus or mould growth, a suitable fungicide should be used prior to application.

* Spalled concrete removed back to good concrete, treated with Newton 104 and filled flush with Newton 203-RM.
* Exposed reinforcing steel, abrade back to clean steel and coat with two coats of Newton 107F to prevent the steel from further corrosion.
* Concrete repair with Newton 203-RM.

### 430 TANKING INTEGRITY

* Penetrations for fixings, services, etc: Resin anchor .

## EXECUTION

### 510A APPLICATION GENERALLY

* + Green Concrete: Cast the granules evenly of the concrete at a rate of 1kg/m2. Float the concrete so that the granules are taken into the concrete surface.
	+ Hardened Concrete: The concrete surface should be dampened to nearly saturation point but not wet with standing water prior to application of Newton 104.
	+ Create the slurry by pouring clean water into a suitable clean mixing vessel then slowly add the Newton 104 powder into the water whilst mixing with a slow speed mixing paddle until a consistency of thick oil paint is obtained.

### 550A CURING AND DRYING

* General: Prevent premature setting, during curing moisten with a fine fog spray of water 2-3 times a day for three days.
	+ Where practical, cover the application with moist hessian and plastic sheeting during the 3-day curing period.
	+ During the curing period protect from frost, rain and standing water.
	+ Curing period (minimum): 3 days.
	+ Remove carrier residue from concrete surface by jet washing, sand blasting or scabbling to ensure a clean interface for any subsequent concrete placement.