



Triton INJECTION MORTAR (T.I.M)

Description and Use

Triton INJECTION MORTAR is a one component injection mortar formulated to stop rising dampness in brickwork, blockwork, random rubble filled walls and all types of masonry.

Triton INJECTION MORTAR is based on ordinary portland cement, selected fine quartz aggregates and active waterproofing chemicals. **Triton INJECTION MORTAR** activates due to a chemical reaction between moisture in the structures and waterproofing chemicals in the mortar, which forms a crystalline growth that blocks the capillaries, pores and fine cracks in the mortar joints.

Triton INJECTION MORTAR is odourless and gives off no toxic vapours.

Preparation and Drilling

- Prior to drilling internally, all obstructions should be removed, i.e., Skirting Boards and Plastering/Rendering. Plaster/Render should be removed up to a line not less than 300mm above the last detectable signs of dampness and/or salt contamination (using an electrical moisture meter) or 1m above the d.p.c, whichever is the higher.
- The positioning of the d.p.c. is vital if the damp proofing works are to be effective. The d.p.c. should be placed at least 150mm above external ground level. If the external ground level is above the internal floor level it is necessary to lower the outside ground (permanently) or to incorporate an internal waterproof surface treatment, such as **Triton TT55** (See separate data sheet) to cover the gap between the inserted d.p.c. line and the floor.
- Holes should be drilled using 19-22mm drill bits at overall spacing's of 110mm and at an angle of depression of about 30°, finishing in a mortar bed at the level of the proposed d.p.c. In solid walls up to 460mm thick drilling from one side to the thickness of the wall (and at the 30° angle), should result in a hole terminating 50mm or so from the far side. It may occasionally be advantageous to drill from both sides i.e., random stonework with rubble infill or thick walls. Drilling should stop just over half way through the wall, the holes being at staggered centres of 110mm.
- Prior to application of **Triton INJECTION MORTAR** all drilled holes should be flushed out with water to remove any dust. **Triton INJECTION MORTAR** should always be injected into damp holes.
- In walls less than 120mm thick, rather than drill holes, the mortar bed at the desired level is raked out to between one third and one half its depth. The mortar bed should be flushed with water to remove debris and the injection mortar applied by trowel into the joint. The mortar should be made up to a stiffer than usual consistency. The joint should be filled to within 8mm of the front face. Re-point using 3:1 washed sharp sand : cement using Trimix 1 Render Additive.

Application of Triton Injection Mortar (T.I.M)

- For injecting **Triton INJECTION MORTAR**, a hand-caulking gun is used.
- The nozzle of the gun is inserted into the holes to the full depth and slowly withdrawn whilst filling the hole with **Triton INJECTION MORTAR**.
- **Triton INJECTION MORTAR** should be stopped approximately 50mm from the top of the hole.
- Once all holes are to this stage it may be necessary to top up due to **Triton INJECTION MORTAR** finding its way into any voids or fine cracks.
- Once **Triton INJECTION MORTAR** has set, the holes should be plugged up with 3:1 washed sharp sand: cement, using **Triton TRIMIX 1** Render Additive.

Mixing of Triton Injection Mortar

- Mix the **Triton INJECTION MORTAR** at the ratio of 2 to 3 parts water by volume to 5 parts powder by volume.
- Add the water to the powder.
- Mix thoroughly until the consistency of smooth cream is achieved, using a mechanical whisk if possible.
- Allow to stand for a few minutes; the mortar will 'false' set. Re-stir, the mortar should remain useable for approximately 20 minutes with occasional further stirring.
- Do not add extra water to the mix when re-stirring.
- Do not mix more mortar than can be used within 20 minutes.



Replastering and decorating

Replastering using a salt retardant render additive such as **Triton TRIMIX 1** is essential if hygroscopic salts and residual moisture are to be successfully held back.

The substrate to be rendered should be prepared in accordance with the good practice. Surfaces should be clean, sound and free from contaminating residues of gypsum plasters, bitumen coatings, etc. apply two coats of render, the first being a 3:1 washed sharp sand : portland cement mix with **Triton TRIMIX 1** * incorporated in the gauging liquid. Apply a minimum thickness of 10mm. Second coat being a 4:1 washed sharp sand : portland cement mix but without the **Triton TRIMIX 1**. A mortar plasticizer may be used if required. Apply to a thickness of 10mm. The finish coat should be a porous skim plaster applied when the cement render coats are fully cured.

* Refer to the **Triton TRIMIX 1** data sheet for full usage instructions.

Once replastering is complete and dry, one coat of trade Matt emulsion can be applied (NO WALLPAPERS OR OIL BASED PAINTS).

Specification

NBS Clause C45 30,220 Damp Proof course renewal/insertion

Wall Thickness MM/Inches	225mm/9"	280mm/11"	350mm/13"	460mm/18"
Consumption Kg/Linear Metre	1.1 Kg	1.4 Kg	1.8 Kg	2.4 Kg

Storage and Packaging

- **Triton INJECTION MORTAR** is supplied in 25kg lined paper sack and should be stored in a dry, frost free, enclosed area.
- Un-opened bags have a shelf life of 12 months.

Precautions

See separate Health & Safety sheet.

For further information please contact:

Triton Chemical Manufacturing Co Ltd T/a Triton Systems
Units 3 – 5 Crayford Commercial Centre, Greyhound Way, Crayford, Kent DA1 4HF

Tel: 01322 318830

Fax: 01322 524017

Email: info@tritonsystems.co.uk

www.tritonsystems.co.uk

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