

## TRITON TT VAPOUR MEMBRANE

### DESCRIPTION

Triton TT Vapour Membrane is a high performance elastomeric liquid rubber membrane specifically designed for waterproofing a range of vertical and horizontal surfaces. Triton TT Vapour Membrane is a water based compound, formulated on a styrene-butadiene co-polymer. Triton TT Vapour Membrane is a single component coating that requires only stirring to form the ideal product to provide a waterproof and gas proof, liquid applied, methane and carbon dioxide barrier.

### KEY BENEFITS

1. A 0.7mm thick (dry film) coating provides an effective methane barrier when applied to most clay or cementitious-based construction materials.
2. An effective waterproof membrane
3. Excellent adhesion, bonds to porous and non-porous substrates.
4. Flexible.
5. Non-toxic.
6. Will withstand temporary light trafficking.
7. Cannot be punctured as fully bonded.
8. Easily repaired by locally over-coating.
9. Can be painted, plastered or screeded over.
10. Rapid drying. In good conditions, two coats can be applied in the same day.
11. Easily applied by brush, roller or airless spray.
12. Easily applied to damp and 'green' substrates.

### TYPICAL APPLICATIONS

1. As a retro applied gas proof membrane to concrete, masonry and brick substrates.
2. Can be applied by airless spray, roller or brush to walls, floors or soffits.
3. As an alternative to sheet membranes in new construction.

### TECHNICAL DATA

#### TRITON TT VAPOUR MEMBRANE

##### Components 1

Form Thixotropic Liquid

Density 1.20 – 1.30

Application Temp Plus 40C

Toxicity Non-toxic

##### Cured Properties

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Adhesion to concrete >1.1N/mm<sup>2</sup>  
Elongation ASTM D2370 % >100%  
Water Penetration 3.0 bars – no penetration  
Gas (methane) permeability <1.40 x 10<sup>-12</sup>

## CHEMICAL RESISTANCE

Triton TT Vapour Membrane has good chemical resistance to gasoline, sodium hydroxide, calcium chloride,

de-icing salts and effluent.

All technical data stated herein is based on tests carried out under laboratory conditions.

## APPLICATION GUIDELINES

1. Surfaces must be clean, free from dust and loose material, oil, paint, fungal growth etc.
2. Non-structural cracks >0.5mm wide must be filled.
3. Structural cracks must first be repaired and filled.
4. The substrate must be sound and ideally present a smooth face. Fill holes with Triton Fillet Seal, remove fins and snots; re-point flush to the finish.
5. Old repairs must be inspected and re-repaired if necessary.
6. Newly laid concrete should have a clean textured surface; Triton TT Vapour Membrane can be applied to concrete or mortar within 24 hours of laying.
7. Apply 45° fillets into angles formed of Triton Fillet Seal where practicable.

## MIXING

Triton TT Vapour Membrane is supplied ready blended in a pail. The product requires agitation using a slow speed paddle mixer. Mix carefully for 5 minutes before use. If containers are stored for more than 2 hours after opening, re-agitate.  
Do not add water.

## SURFACE APPLICATION

1. Pre-dampen (not wet) the substrate before applying the first coat.

Interface with other media

1. For expansion joints ensure that Triton TT Vapour Membrane is applied well into the rebate before the expansion media is applied.

2. Other gas membranes must be exposed and lapped with Triton TT Vapour Membrane where present.

Dealing with cracks

1. Cracks must be stabilised and filled. Apply the first coat of Triton TT Vapour Membrane and apply

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plasterers' polyurethane scrim along the line of the crack. Apply a further coat of Triton TT Vapour Membrane to fully cover the scrim; apply the final coat as stated below.

Application of the main coating system

1. The product can be applied by stiff brush, roller or airless spray with a minimum 17/1000 of an inch nozzle. The spray method is especially suitable for less accessible locations and uneven substrates.
2. The first, primer, application is applied at the rate of  $>300\text{g/m}^2$ . Ensure that the coating is even and use a circular action when spraying.
3. Allow the primer coat to dry before applying the second coat.
4. Apply the second coat at the rate of  $700\text{g/m}^2$  for brush application and apply at right angles to the first coat. Again use a circular action when spraying.
5. Do not apply over bitumen.
6. The total application thickness must not exceed 4mm if splitting or cracking is to be avoided.

## PACKAGING

Triton TT Vapour Membrane is supplied in a 20lt pail.

## COLOUR

The standard colour is mid grey

## STORAGE

Triton TT Vapour Membrane must be stored at room temperature (min  $10^\circ\text{C}$  and max  $35^\circ\text{C}$ ), kept dry and out of direct sunlight.

If these conditions are maintained and the product packaging is unopened, then a shelf life of 1 year can be expected.

## HEALTH & SAFETY

Triton TT Vapour Membrane should only be used as directed. We always recommend that the Health & Safety data sheet is carefully read prior to application of the material. Our recommendations for protective equipment should be strictly adhered to for your personal protection. The Health & Safety data sheet is available upon request from Triton Chemical Manufacturing Co. Ltd.