



TRITON TM20 Membrane



Description

A waterproofing drainage layer primarily for use over floors and against steel sheet piling within a Drained Cavity Membrane specification. TRITON TM20 Membrane is manufactured from black high-density polyethylene (HDPE). It is impermeable to water, water vapour, Radon gas and is resistant to the chemicals and materials commonly used in building construction. When TM20 is used as a damp-proof or waterproof membrane it may be installed irrespective of the moisture content in the underlying concrete construction. Any water running over the substrate has de-pressurized into the air gap under the membrane and can run off to be collected in the Aquachannel conduit.

Studs are formed in a regular pattern on the one face of the membrane. The studs are spaced at approximately 60mm centres and are 20mm deep.

High capacity TM20 is recommended for use on all floor applications below ground due to its ability to deal with and isolate running water. The deep stud profile is designed to provide a large water capacity per square metre and thus resist potential blockages caused by lime deposits, (Triton Anti-Lime Coating or Triton TT Super must be used as a dressing on concrete or concrete filled blockwork to reduce the risk of leaching).

Workability

TRITON TM20 Membrane is tough but pliable and can be formed around corners and projections without risk of breaking even in very low temperatures. The membrane is easily cut with a knife, shears, or scissors.

Storage

Sheets of TRITON TM20 Membrane should be stored flat and rolls of TM20 Membrane should be stored upright.



Technical Data

Sheet thickness:	Nominal 1.00 mm
Stud height (net):	Approx. 20 mm
Unit weight:	1.0 kg/m ²
Tensile strength at yield:	at least 10 N/mm ²
Elongation at yield:	at least 15%
Max. Compressive strength:	170 kN/m ²
Deformation under long term loading:	Max. 10% (load of 50 kN/m ²)
Working temperature:	-50 ° to +80 °C
Softening temperature:	+125 °C
Linear coefficient of thermal expansion:	0.13 mm/m. °C
Life Expectancy:	at least 50 years for defined applications
Thermal Resistance:	0.17 m ² . °C/W
Water vapour resistance:	3500m ² .s.Gpa/KG
Drainage Capacity:	Max. 13 litres/m ²
Air gap volume:	14 l/m ²
Colour:	Black

Chemical Resistance

TRITON TM20 Membrane is resistant to the chemicals and materials commonly used and found in building construction. A small number of aggressive chemicals (e.g. solvents) in large concentrations, can to some extent attack TRITON TM20 Membrane during prolonged exposure. If exposure to aggressive chemicals is anticipated, advice should be sought from our Technical department. Temporary exposure to volatile solvent due to splashes or accidental leaks is unlikely to cause any long-term damage. Tape or Rope joints may need to be inspected and renewed if softened or damaged.

Sizes

Rolls of 2.0 m x 20 m x 20 mm, including side flange, also available in convenient sheet form (1.36 m x 2.22 m).

Accessories

Triton Sealing Rope: sealing stud to stud overlaps. 5m roll.

Triton Sealing Tape: sealing flange to stud overlaps. 20m roll.

Triton Cornerstrip Tape: floor to wall membrane joint sealing and sheet to sheet joint overtaping. 10m roll.

TRITON waterproofing systems:

We supply a comprehensive range of pre and post-applied water and gas proof membranes, waterproof coatings and an additive to make watertight concrete. Our aim is to provide a complete service of specification, supply, and technical support. Contact us for more information.

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