



Platon P20 Membrane



Description

A waterproofing drainage layer primarily for use over floors and against steel sheet piling within a Drained Cavity Membrane specification. Platon P20 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 P20 is used as a damp-proof or waterproof membrane it may be installed independent 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.

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 P20 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).

Workability

Platon P20 Membrane is tough but pliable and can be formed around corners and projections without risk of breaking even in very low temperatures. The membrane can be easily cut with a knife, shears or scissors.

Storage

Sheets of Platon P20 Membrane should be stored flat and rolls of P20 Membrane should be stored upright.



Technical Data

Sheet thickness:	Nominal 1.00 mm
Stud height (net):	Approx. 20 mm
Unit weight:	0.95 kg/m ²
Tensile strength at yield:	at least 10 N/mm ²
Elongation at yield:	at least 15%
Max. Compressive strength:	240 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 litre/m ²
Air gap volume:	14 l/m ²
Colour:	Black

Chemical Resistance

Platon P20 Membrane is resistant to the chemicals and materials commonly used in building construction. A small number of aggressive chemicals (e.g. solvents) in large concentrations, can to some extent attack Platon P20 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, also available in convenient sheet form (1.36 m x 2.22 m).

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