

Waterproof Tanking Membrane Product Data Sheet



Product Data

Material: HDPE

Stud Height: 8mm

Colour: Translucent /White

Roll Size: 2mx20m (40m²)

2mx10m (20m²)

Drainage Volume: 5.5ltrs/m²

Weight: approx. 500 g/m²

Number of studs: 1840 /m²

Load bearing: 200 kN/m²

Chemical properties: resistant to chemicals, rot-resistant, resistant to root penetration, biological resistant properties against bacteria and fungus

Temperature range: -30°C to + 80°C

Flammability rating: B2 (DIN-4102)

Distinction: suitable for use in accordance with **BS8102:2009** to provide 'Type C' drained protection to structures below ground level, providing a Grade 3 or 4 dry environment suitable for domestic or commercial use

Description

SkilledBuild's Waterproof Tanking Membrane is a high quality, high density polyethylene (HDPE) membrane. It is suitable for waterproofing structures below ground level and isolating damp walls above ground level.

The Waterproof Tanking Membrane is fixed mechanically to original sound wall/floor surfaces, to provide an air gap (drain cavity) between the membrane and the wall/floor. This allows any free water to run behind it.

Tanking and cellar conversion works must always be in accordance with the relevant Building Regulations or British Standards. SkilledBuild's Waterproofing Tanking Membrane is suitable for use in accordance with **BS8102:2009** to provide 'Type C' drained protection to structures below ground level, providing a Grade 3 or 4 dry environment suitable for domestic or commercial use.

Directions for use:

Preparation:

- Ensure all wall surfaces are free from sharp protrusions and are reasonably level.
- Remove any unsound or salt contaminated plaster and repair ensuring a solid fixing.
- Remove all timber or organic materials to prevent risk of fungal or bacterial growth behind the system. Any existing moulds or fungi should be treated with an appropriate biocide, such as [Skilled Build's Mould Steriliser and Killer](#).
- Clear the floor of oil and loose material. Level out any sharp edges and large depressions (this is particularly important where a timber floor will be installed).
- Determine the drainage design. Implement this to test it before laying the membrane.
- Where the membrane is to be fixed to flat soffits, ensure there is a free fall to allow proper drainage and prevent ponding.

Fixing the Membrane:

- The Waterproof Tanking Membrane is fitted against the wall or floor to create an air or depressurisation gap. It can be fitted horizontally or vertically. The membrane is fitted to the wall using a Brick Plug fixing. This should have a water proof seal applied to the collar, such as a soft rubber plug seal or silicon sealant.
- Hang the membrane down the wall and using a 10mm drill bit, drill the centre of a stud near the top edge of the membrane, to a depth greater than the fixing length.

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Key Benefits

- Use to create dry and habitable living spaces in areas suffering from damp or wet conditions.
- Little or no damage to existing structure.
- Quick to install, little preparation required.
- Low and high temperature tolerance.
- Decoration can be applied immediately after installation.
- When used as a floor membrane, insulation, under floor heating, screed and floating floors can all be accommodated.
- Resistant to water, rot, salt, roots and contaminants.
- Easily malleable and cut with scissors for application around windows doors and services.

Safety

The Waterproof Tanking Membrane has no specific hazard specification. However, general precautions should be taken in the use of the associated equipment such as drills, hammers etc. and working in confined spaces.

The Waterproof Tanking Membrane should be stored in dry conditions, avoiding sharp objects, direct sunlight and high temperatures.

Areas of Use

- Waterproofing below ground level
- Isolating damp walls above ground level

- The fixing needs to be gently tapped into the pre-drilled hole using a rubber mallet until it is flush in the stud.
- Level the membrane to provide sufficient support across the top of the sheet. Ensure that the membrane is kept level and taught to avoid ripples.
- If fixing the membrane vertically, subsequent sheets should overlap by at least the width of the flange (the strip of membrane running along the edge with no studs. Vertical joints need to be sealed with self adhesive [Waterproofing Tape](#) or [Waterproofing Rope](#).
- If fixing the membrane horizontally, joints should be stud to stud with the upper sheet positioned against the wall and the lower sheet overlapping in front of it by at least 2 studs. A waterproof seal should be formed using [Waterproofing Tape](#) or [Waterproofing Rope](#). Ensure that the flange is free from dust/dirt to obtain a good bond.
- The number of additional fixing plugs that need to be fitted is dependent on the type of wall finish to be used. Timber battens need 450mm centres vertically and 600mm horizontally. Free standing timber/metal frames and free standing walls do not require specific fixing centres. In this instance use sufficient fixings to ensure the membrane is tight to the wall, paying attention to corners and reveals.
- Battens should be pre-treated with a preservative. Fix battens into the brick plugs ensuring that the membrane is not pierced. The brick plug will take 30mm of screw. The length of the screw depends on the thickness of the batten. Plasterboard should be fixed to the battens ensuring that screws do not exceed the depth of the batten and puncture the membrane. Permanent decorations, including vinyl wall papers and oil paints, can be applied after the plasterboard and plaster finish have been fixed. Wall mounted fitting must be fixed into the battens.

Floors & Wall/Floor Joints:

- Cut the membrane at floor / wall joints so it is flush and seal the gap with [Waterproofing Corner Tape](#).

Services:

- To seal services in walls and floors, cut the Waterproof Tanking Membrane around them and seal using [Waterproofing Rope](#) and [Waterproofing Corner Tape](#).

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Please Note

- Where the Waterproof Tanking Membrane is installed above the **Damp Proof Course level**, leave a 10mm gap at the top and a 20mm gap at the base of the wall in order to provide a ventilated system. It should be finished with off-set or ventilated cappings or skirtings.
- In **basements** it is essential that the Waterproof Tanking Membrane is used in conjunction with a suitable sump and pump facility, unless passive drainage is available. It is essential that the sump and pump facility is maintained throughout the lifetime of the membrane installation.
- Consideration should also be given to providing an adequate means of **condensation control** where there is a lack of natural ventilation.

Important Information

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All information provided is based on practical tests & published data and is intended to guide a competent DIY user or contractor in the typical use of products for minor works but is without guarantee. If a failure of the works will be costly to repair or hazardous then design & execution must be undertaken by competent persons. Further advice should be sought from a suitably qualified advisor. Skilled Build may be able to answer simple product enquiries.

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