Waterproof Mesh Membrane Product Data Sheet

Description

SkilledBuild's Waterproof Mesh Membrane is a cavity drainage membrane made of high quality, high density polyethylene (HDPE). This product allows isolation of wet walls both above and below ground and incorporates a HDPE mesh lathing on the front face which allows direct application of mortars, lime renders, plaster or dot and dab plasterboard finishes. The Waterproof Mesh Membrane may also be used as a waterproof support for rending finishes, especially in exposed situations, where elevations of the building are subject to water penetration or salt laden air.

The Waterproof Mesh 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.

SkilledBuild's Waterproofing Mesh 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.

Product Data

Material: HDPE

Stud Height: 8mm

Colour: Translucent /White

Roll Size: 2mx20m (40m²)

2mx10m (20m²)

Drainage Volume: 5.5ltrs/m²

Weight: approx. 750 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.

Directions for use:

Preparation:

- When using the Waterproof Mesh Membrane above ground as a barrier to moisture, it is advisable to identify the source of the ingress and repair or isolate it before installing the membrane.
- 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.

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Areas of Use

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

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.
- Accepts direct plaster finish.
- Resistant to water, rot, salt, roots and contaminants.
- Easily malleable and cut with scissors for application around windows doors and services.

Please Note

- Where the Waterproof Mesh Membrane is installed above the **Damp Proof Course level**, leave a 10mm gap and the top and a 20mm gap at the base of the wall in order to have a ventilated system. It should be finished with off-set or ventilated coverings or skirtings.
- In **basements** it is essential that the Waterproof Mesh Membrane is used in conjunction with a suitable sump and pump facility, unless passive drainage is available on one side of the building. 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.

Fixing the Membrane:

- The Waterproof Mesh 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, such as a soft rubber plug seal, silicon sealant or Waterproofing Rope.
- The fixing needs to be gently tapped into the pre-drilled hole using a rubber mallet until it is flush in the stud.
- The Waterproof Mesh Membrane should be fitted from the centre of the membrane outwards. Fixings should be no further than 250mm apart for each other to ensure as flat a surface as possible, avoiding rippling of the membrane and subsequent cracking of the applied finish. Particular attention should be paid to corners and revels to ensure the membrane is tight to the wall. It may be necessary to use more fixings in these areas.
- Where dry lining, fixing centres may be increased to 350mm.
- When using with external render applications, the fixing centre should be reduced to 150mm.
- Subsequent sheets should overlap stud to stud, with the non-mesh studs interlocking. Seal the overlap with Waterproofing Rope.
- Waterproofing Tape is perfect when you lace the tape between the flange of one sheet and the top surface of the next. If the flange is not flat to the stud joint then you should use our Waterproofing Rope which is ideal for that application.

Finishes:

- All plasters and renders should be applied in accordance with manufacturer's instructions and good plastering/rendering practice. (BS5492/BS5262).
- Use proprietary lightweight plasters or a 6:1:1 render mix (six parts clean sharp sand: one part lime or plasticiser: one part cement). Do not use soft or building sand. A two-coat application is recommended allowing 7-10 days between coats depending on site/weather conditions. Both plasters and renders must be to a minimum total depth of 15mm. The first coat should be applied with firm pressure to the depth of the studs and cover the mesh. The coat should be scratched to provide a sound key for the floating coat. Then finish with a 3mm skim coat.
- For dry lining use a conventional bonding plaster in dabs to minimum thickness of 8mm and that cover at least 50% of the membrane surface area.

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Safety

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

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 sort from a suitably qualified advisor. Skilled Build may be able to answer simple product enquiries.

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- Once the plastered, dry-lined or rendered surface has dried, permanent decorations can be applied including vinyl wall papers and oil paints.
- The fixings for wall mounted fittings (apart from light weight items such as picture frames) should be fixed through the finished surface and the membrane to the load bearing substrate behind. Holes made in the membrane should be filled with a flexible sealant before inserting the fixing. Puncturing the membrane should be avoided in below ground installations.

Services:

- To seal services in walls and floors, cut the Waterproof Mesh Membrane around them and seal using Waterproofing Rope and Waterproofing Corner Tape.

Installation Diagram
Dot & Dab Drylining & Floor Screeding