



## TECHNICAL DATA SHEET

Ver. 2.00  
(01/08/18)

Brit Adhesives Ltd  
Hainge Road  
Tividale  
West Midlands  
B69 2NH

Tel:  
0121 520 9333

Fax:  
0121 520 9900

Web:  
[www.britadhesives.co.uk](http://www.britadhesives.co.uk)

Email:  
[sales@britadhesives.co.uk](mailto:sales@britadhesives.co.uk)

## BRIT AQUA MEMBRANE DECOUPLING & TANKING MATTING

A water-impermeable and decoupling membrane for under ceramic and natural stone tiles. A highly crack-resistant covering, alkali and weathering resistant.

### - DESCRIPTION:

Brit Aqua Membrane is a bonded waterproofing and decoupling membrane based on a system composed by a polyethylene layer coated by a non-woven polypropylene fleece laminated on both sides which is highly crack resistant, acts as a vapour barrier and has good adhesion to thin-bed mortars and liquid composite seals, such as polymer dispersions, flexible sealing slurry and reaction resins. Brit Aqua Membrane can be cut easily and particularly suitable for quick sealing. At only 1.1mm thick it is ideal due to low construction height for renovation projects.

#### *Why Use Brit Aqua Membrane?*

Brit Aqua Membrane is quick and easy to install and provides a waterproof barrier to wet duty areas, where ceramic, porcelain or natural stone tiled finishes are required. The areas are ready for use in a short time, and the easily installed system minimizes potential errors, which may result in leakages.

### - WHERE TO USE:

Brit Aqua Membrane is a waterproofing and decoupling membrane which can be used as follows:

- bonded waterproof membrane for wet and damp areas, in residential and commercial buildings such as domestic and hotel bathrooms, private or commercial showers, balconies and terraces, as well as floor boards and chipboards under ceramic coatings.
- uncoupling membrane under ceramic tiles and natural stone floorings;
- on old hard ceramic coatings, brickwork
- waterproofing membrane on moisture-sensitive substrates (such as gypsum plaster, and gypsum fibreboards, calcium sulphate screeds) and mineral surfaces (such as cement plaster, porous concrete, concrete, cement screed, cement-based panels), heated and unheated screeds

### - TECHNICAL:

Brit Aqua Membrane is a waterproofing membrane composed by a polyethylene layer coated by a non-woven polypropylene fleece laminated to both sides. The polyethylene layer ensures the waterproofing of the system while the polypropylene fleece ensures a relevant bond strength of the adhesive between the membrane and the tiles.



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### - TECHNICAL:

Brit Aqua Membrane is characterized by:

- waterproofing;
- decoupling;
- high tensile strength;
- crack bridging ability;
- alkali-resistance;
- high adhesion when used together with Brit Adhesives range of cementitious tile adhesives.

Advantages include:

- Easy application.
- Fast setting.
- Hygienic.
- Complete system of products.

### - RECOMMENDATIONS:

- Do not use Brit Aqua Membrane if the environmental temperature is lower than +5°C.
- In large areas the use of Brit Aqua Membrane as a decoupling membrane does not avoid the need of movement joints.
- Brit Aqua Membrane cannot be used as a top layer, and must always be covered with a protective layer such as a ceramic coating (after hardening of the mortar).
- Do not apply any smoothing layer on top of the waterproofing membrane.

### - PREPARATION:

The substrate must be dry, stable, sound, flat and free from loose particles and other materials, which may inhibit adhesion. Remove all cement laitance, flaking areas and traces of powder, grease, wax, paint etc. All cracks wider than 0.2 mm must be repaired beforehand. Uneven cementitious substrates or ceramic surfaces with wide joints need to be smoothed off and repaired before laying Brit Aqua Membrane. Existing floors and those tiled with ceramic, porcelain, clinker or terracotta tiles, etc, must be well bonded to the substrate and be free from substances which could affect the adhesion of the membrane, such as grease, oil, wax, paint, etc. To remove material that could affect the adhesion of the cementitious adhesive, clean the floor with suitable cleaning agents.

Gypsum based substrates such as calcium sulphate screeds, plasterboard or gypsum plaster as well as absorbent surfaces made of concrete, aerated concrete, cement mortar and cement render must be primed, before laying Brit Aqua Membrane, with BritPrimer or BritPrimer HD at the appropriate dilution (refer to the relevant technical data sheet for information).

Non-absorbent substrates such as ceramic tiles or natural stone surfaces must be primed with Brit Prim Grip.

#### *Laying Brit Aqua Membrane:*

Brit Aqua Membrane must be cut to size before being bonded. Use a Brit Adhesive tile adhesive conforming to a minimum of class C2 according to EN 12004 such as Britflex S1 or similar, apply using a 4mm notched trowel. For application details please refer to the pertinent technical data sheet. Brit Aqua Membrane must be laid over the fresh adhesive and pressed down uniformly, from the centre to the edges, in order to avoid trapping air bubbles under the waterproofing membrane.



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### - PREPARATION:

The overlap between Brit Matt sheets must be minimum 5 cm wide. Seal all the junctions between floors and walls and between adjoining sheets with Brit Aqua Waterproofing Tape, laid directly onto Brit Aqua Membrane. Waterproof the internal and external corners with Brit Aqua preformed corners bonded with Brit Aquaseal onto the membrane. All pipes must be waterproofed by using the Brit Aqua Waterproof Collars and Gaskets and bonded with Brit Aquaseal onto the membrane.

### - LAYING TILES:

After the application of the Brit Aqua Membrane, it is possible to proceed directly with the installation of tiles. The choice of the adhesive should be made according to the type and size of the selected ceramic tile or natural stone. After installing the tiles, grout the joints using Britflexi Grout.

The expansion / movement joints must be sealed with Britseal Silicone.

### - PRODUCT IDENTITY:

Colour: Black / white

Approx layer thickness: 0.9 / 1.1 mm

Width: 1m

Roll length: 15 m

Weight: 490mg/m<sup>2</sup>

Working temperature: from +5 °C

Equivalent air layer thickness, SD-Value: 90 m

Barrier sheet: Polyethylene (PE)

Carrier material: Polypropylene and Polyester fleece

Temperature resistance: -20 °C to +70 °C

Tensile strength, lateral direction DIN 53504: > 11 N/ mm<sup>2</sup>

lengthwise direction DIN 53504: > 8 N/ mm<sup>2</sup>

Rupture strain, lateral direction DIN 53504: > 40 %

lengthwise direction DIN 53504: > 36 %

Water vapour transmission resistance coefficient  $\mu$ : 450.000

Water pressure resistance: 3 bar

Fire class (DIN, EN): B2, E

Chemical Resistance:

Lactic acid: 5 %

Acetic acid: 5 %

Hydrochloric acid: 3 %

Potassium hydroxide: 20 %

Lime milk pH = 12.5

Sodium hydroxide solution pH = 14,0

### - STORAGE:

Brit Aqua Membrane can be stored for 24 months in a cool, dry place. Protect from frost and damp.

### - DISPOSAL:

Brit Aqua Membrane may be disposed of as building waste.



## TECHNICAL DATA SHEET Ver. 1.00 (2017)

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## - HEALTH & SAFETY:

Brit Aqua Membrane is a non-hazardous material.  
Wear protective clothing, safety goggles and safety gloves.

### ALWAYS WEAR PROTECTIVE WORKWEAR



WEAR DUST  
MASK



PROTECTIVE  
CLOTHING



WEAR SAFETY  
GOGGLES



WEAR SAFETY  
GLOVES

*Notes: The information given is without prejudice and is believed to be accurate and complete. BRIT ADHESIVES goods are guaranteed against defective materials but we have no control over the site conditions, misuse of the product or the quality of the workmanship. BRIT ADHESIVES accepts no liability for any direct or indirect consequential loss or damages arising or resulting from the use of this information. Timber subfloors should be installed according to manufacturers' instructions and site conditions should be taken into consideration.*