

# Technical Data Sheet

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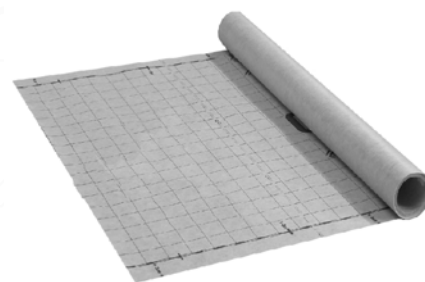
## ARC WATERPROOF SEALING AND DECOUPLING MEMBRANE

### DESCRIPTION

Arc Waterproof Sealing and Decoupling Membrane is an innovative, low-profile, 3-ply crack bridging waterproof membrane designed to protect tiling installations on floors and walls from substrate cracks and moisture migration. It is made from an inner layer of waterproof polythene which has been covered on both sides with a special non-woven, thermobonded fleece to anchor the membrane to suitable tile adhesive.

- Easy to Install
- Fast Track
- 2-in-1 Waterproofing and Decoupling
- Low Profile
- Domestic and Commercial Use
- Indoor and Outdoor Use

It is suitable for use indoors or outdoors with medium to high loads of traffic e.g. domestic bathrooms, commercial kitchens, shower rooms, balconies and terraces. It is also suitable for use in areas with constant positive water pressure, i.e., swimming pools and areas of high humidity such as spas.



### SUBSTRATE PREPARATION

Ensure the substrate is sufficiently level and load-bearing for the tiling installation and level of traffic. The substrate must be free from barriers to adhesion such as loose material, dust, grease, oil etc. Any cracks greater than 2mm should be repaired, filled or injected.

**Gypsum Screeds** – Screed must be confirmed dry and the residual moisture must be below 0.5%. Mechanically abrade surface and vacuum dust. Prime surface with Arc Tiler's Primer diluted 3 parts primer to 1 part water followed by one neat coat of Arc Tiler's Primer.

**Timber floors** – Timber substrates must be sufficiently rigid and supported to be free from excessive deflection under expected loads. Arc recommend overlaying timber floors with Arc MagnaBoards, screw fixed at 150mm centres. Where plywood is used as overlay it must be exterior grade and a minimum of 15mm thick. Prime boards with Arc Tiler's Primer diluted 3 parts primer to 1 part water.

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### APPLICATION

Roll out the membrane, measure and cut to size.

Membrane must be either overlapped by 50mm or butt-jointed and sealed with Arc Self-adhesive Butyl tape.

Apply a Rapid Setting Flexible adhesive to the prepared substrate with a 3x3mm or 4x4mm notched trowel. Roll the membrane into the adhesive within the open time and smooth flat with the flat edge of a trowel or grout float etc. Ensure there are no creases or air pockets. All construction joints and movement joints must be carried through the membrane and the tiling installation. The membrane should be cut to permit this. In waterproof installations, it will be necessary to tape over the joints and proprietary movement joints may be required. Once the adhesive has set, tiles can be installed using a suitable adhesive. All tiling should be carried out to current best practice and industry guidance.

### TECHNICAL DATA

Colour	Grey (Other colours in accordance to RAL upon request)	
Total width	1000 mm (Additional widths upon request)	
Total thickness (approx)	0,46 mm	
Material weight (approx.)	275 g / m <sup>2</sup>	
Resistance to temperature	min. / max. - 30°C / + 90°C	
Length per roll	30 metres (Alternative make ups upon request)	
Physical Properties	DIN	Value (approx.)
Burst pressure max.	Internal	2,8 bar
Breaking load longitudinal	DIN EN ISO 527-3	89 N / 15 mm
Breaking load lateral	DIN EN ISO 527-3	38 N / 15 mm
Extension break longitudinal	DIN EN ISO 527-3	78 %
Extension break lateral	DIN EN ISO 527-3	73 %
Power absorption at 25% Elasticity lateral	DIN EN ISO 527-3	2,0 N / mm
Power absorption at 50% Elasticity lateral	DIN EN ISO 527-3	2,4 N / mm
Resistance to tearing longitudinal	DIN EN 12310-2	60 N
Resistance to tearing lateral	DIN EN 12310-2	111 N
Resistance to water pressure	DIN EN 1928 (Version B)	>1,5 bar
UV-Resistance: min.	DIN EN ISO 4892-2	500 h
Moisture vapour resistance air equivalent (sd)	DIN EN 1931	> 50 m
Bonding strength	DIN EN 1348	> 0,4 N / mm <sup>2</sup>

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Chemical Properties	Resistance after storage over 7 days by room temperature in following chemicals	+ = resistant 0 = weakened - = non resistant
Hydrochloric acid 3%	Internal	+
Sulphuric acid 35%	Internal	+
Citric acid 100g/l	Internal	+
Lactic acid 5%	Internal	+
Potassium hydroxide 3% / 20%	Internal	+ / +
Sodium hypochlorite 0,3g/l I	Internal	+
Salt water (20g/l Sea water salt)	Internal	+

### IMPORTANT REMARKS

Arc Sealing and Waterproofing Membrane must always be installed immediately below tiling, i.e. any levelling compounds etc must be applied below the membrane.

It is always recommended to tank walls and floors and in doing so all corners and joints should be sealed with Arc Self-adhesive Butyl tape.

Sealing and Decoupling Membrane is not a replacement for over-boarding floors with a suitable board to strengthen or to eliminate deflection, vibration or other vertical movement.

### NOTE

All products should be sold in accordance with the manufacturer's instructions. The manufacturer cannot be held responsible where conditions of use are beyond our control. Full information and advice is freely available from our Technical Services Department e-mail [technical@arcbuildingproducts.ie](mailto:technical@arcbuildingproducts.ie). Whilst any information contained herein is to the best of our knowledge true and accurate, no warranty is given or implied in connection with any recommendations or suggestions made by us, our representatives, agents, or distributors, as the conditions of use and any labour involved are beyond our control. Our warranty is therefore limited to the quality of supplied product.