

WATERPROOF MEMBRANE



- Manufactured to provide a consistent layer of protection throughout your wet area
- Load bearing membrane and vapor barrier, exceeds TCNA requirements for steam shower applications
- Signature fleece weave for optimal adhesion

DESCRIPTION

The MiTek Waterproof Membrane is a flexible, watertight membrane and vapor barrier for use in watertight applications in conjunction with tile on floors and walls. Waterproof Membrane ensures superior adhesion of tiles and provides a simple watertight solution for areas with high levels of water and moisture. Waterproof Membrane is a three layer membrane comprised of a polyethylene core and outer layers of polypropylene and is available as 1M wide rolls, seam tape, inside and outside corners, pipe collars and mixing valve covers. Waterproof Membrane is also available pre-applied to both TRITON® Waterproof Backer Board and Pre-Sloped Shower Pans, providing a labor saving option for waterproofing of shower walls and floors.

PRODUCT DATA

PACKAGING

Available in the following roll sizes:

(39.4" x 32.8') (108ft ²)	1m x 10m
(39.4" x 98.4') (323ft ²)	1m x 30m
(4.724" x 32.8')	120mm x 10m
(4.724" x 98.4')	120mm x 30m

STANDARDS

Waterproof Membrane is certified by the International Code Council's Evaluation Services (ICC-ES) to comply with ANSI 118.10-2008, American National Standard Specification for Load Bearing, Bonded Waterproof Membrane for Thin set Ceramic Tile and Dimensional Stone Installation and ICC-ES AC115 (R2013), Acceptance Criteria for Waterproof Membranes for Flooring and Shower Lining, See ICC-ES Report PMG-1115. Waterproof Membrane satisfies the performance criteria requirements of AS 3740-2010 'Waterproofing of domestic wet areas.

STORAGE

Deliver and store products in manufacturer's original, unopened packaging until ready for installation. Store Waterproof Membrane in a manner and location to protect from weather, direct sunlight, surface contamination and construction traffic. Where possible, store rolls of Waterproof Membrane vertically to avoid crushing and other potential surface damage. Handle materials to avoid damage to edges and surfaces.

800-328-5934

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PRODUCT DATA (CONT.)

ENVIRONMENTAL CONDITIONS

Waterproof Membrane has a service temperature range of -40°F to 176°F (-40°C to 80°C).

APPLICATIONS

Waterproof Membrane is designed for use over most substrates and will provide a smooth surface for the installation of tile and stone.

Waterproof Membrane is an integral part of the MiTek Watertight System provided seams are overlapped by a minimum of 2" (50mm), sealed with waterproof tape, or sealed with preformed corners.

Waterproof Membrane preformed inside and outside corners are required to ensure watertight results.

Waterproof Membrane may be used in both interior and exterior applications.

LIMITATIONS

1. For watertight applications, Waterproof Membrane seams must be overlapped by a minimum of 2" (50mm) or sealed with waterproof tape.
2. Prior to installation of Waterproof Membrane, the substrate must be flat, clean and free of any debris or other material that could impair adhesion.
3. Must be installed in compliance with appropriate ANSI and industry standards and TCNA recommendations. See installation instructions for details.
4. May not be compatible with certain glass tiles and/or may require special setting materials.
5. Do not install with Type 1 organic adhesive or mastic.
6. Prior to setting tile, wait 24 hours minimum before water testing to allow for final set of mortar at seams and connections.
7. DO NOT bond to particle board, Luan, OSB, interior glue plywood, Masonite® or hardwood surfaces.
8. Do not use as a primary roofing membrane over occupied space. For more information installation of tile over wood decks or over occupied or finished spaces please refer to TDS 157 "Exterior Installation of Tile and Stone Over Occupied Space".
9. Do not use over dynamic expansion joints, structural cracks or cracks with vertical differential movement.
10. Do not use over cracks > 1/8" (3mm) in width.
11. Do not expose to negative hydrostatic pressure, rubber solvents or ketones.
12. Use care not to damage materials prior to installation of tile or stone finishes. Must be covered with ceramic tile, stone, brick, screeds, terrazzo or other traffic bearing finishes. Cover with protection board to protect from foot traffic and other trades when installing on horizontal surfaces.

LIMITATIONS (CONT.)

13. Do not install directly over any substance that is dimensionally unstable, can swell with moisture or that can delaminate. TRITON® Backer Board is recommended for all installations.
14. Not for use beneath cement or other plaster finishes. Consult with plaster manufacturer for their recommendations when waterproofing membrane is required under plaster finishes.
15. Surfaces must be structurally sound, stable and rigid enough to support ceramic/stone tile, thin brick and similar finishes. Substrate deflection under all live, dead and impact loads, including concentrated loads, must not exceed L/360 for thin bed ceramic tile / brick installations or L/480 for thin bed stone installations.

INSTALLATION

1. The substrate must be clean, even, and load-bearing. Use a damp sponge to clean the substrate.
2. Drywall substrates require a coat of primer.
3. Pre-cut the Waterproof Membrane to size, including hole cuts for plumbing penetrations.
4. Use recommended mortar for substrate with maximum water, per mortar manufacturer's instructions.
5. Skim coat wall where the first Waterproof Membrane sheet will go, then use a 1/8" (3mm) square notch trowel to apply mortar bed.
6. Align the Waterproof Membrane and embed it into the mortar.
7. Use float and broad knife, working center outward, to remove any air pockets and ensure good contact.
8. Periodically check for 100% coverage.
9. Repeat steps 5-8 for each remaining Waterproof Membrane sheet, ensuring any seams have a minimum 2" (50mm) overlap.
10. Use the same trowel and mortar method to apply pre-formed collars at any plumbing exposures.
11. MiTek Waterproof Benches, Niches, and Curbs must be protected appropriately with MiTek Inside and Outside Corners and MiTek Seam Tape.
12. Using the same mortar and techniques used for the installation of MiTek Waterproof Membrane, install all appropriate MiTek Watertight System accessories – Seam Tape, Inside Corners, Outside Corners, Pipe Collars, Mixing Valve Flanges, Niches, Benches, and Curbs. Only MiTek Watertight System accessories may be used. Apply MiTek Seam Tape over any MiTek Waterproof Membrane seams where 2" (50mm) of overlap is not achieved, and at all places where MiTek Waterproof Benches, Niches, and/or Curbs meet MiTek Waterproof Membrane.

Note: Water testing of the assembly Prior to setting tile, wait 24 hours to allow for the final set of the mortar before testing to ensure waterproof performance of the assembly at seams and connections.

Must be installed in compliance with appropriate ANSI and industry standards and TCNA recommendations.

TECHNICAL DATA

WATERPROOF MEMBRANE		
MATERIAL	3-ply waterproof membrane, Two outer layers of polypropylene non-woven. One inner layer of polyethylene.	
Moisture Transmission Rate	ASTM E96	<0.075
Waterproofness	ASTM D 4068	PASS
Fungi Resistance	ANSI A118.10 Section 4.1	PASS
Shear Strength	ANSI A 118.10/ ASTM C482	> 50 psi
Breaking Strength	ASTM D 751 Procedure B	>170 psi
Durability	AS/NZS 4858 Appendix A	PASS
Material Thickness	0.45 mm	
Material Weight	27.6 g/m	
Color	Yellow	

WARRANTY AND MATERIALS

Products and systems provided by MiTek are warranted to be free from defects in material and workmanship. Visit mii.com/watertight for complete warranty details.

SUBMITTAL APPROVAL

JOB NAME:	
CONTRACTOR:	DATE:

LEGAL

PRODUCT INFORMATION

See mii.com/watertight for the most up-to-date product information.

TRADEMARKS

The trademark MiTek®, the design elements and colors, and related marks are trademarks of MiTek Inc.

NOTE

Products described here may not be available in all geographic markets. Consult your MiTek representative for information.

NOTICE

We shall not be liable for incidental and consequential damages, directly or indirectly sustained, nor for any loss caused by application of these goods not in accordance with current printed instructions or for other than the intended use. Our liability is expressly limited to replacement of defective goods. Any claim shall be deemed waived unless made in writing to us within thirty (30) days from date it was or reasonably should have been discovered. See full warranty at mii.com/watertight.

SAFETY FIRST!

Follow good safety/industrial hygiene practices during installation. Wear appropriate personal protective equipment. Read SDS and literature before specification and installation.

INDUSTRY ORGANIZATIONS



COMPANY INFORMATION



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