

Golden Wrapping

Bonded Waterproofing Membranes and Vapor Retarders

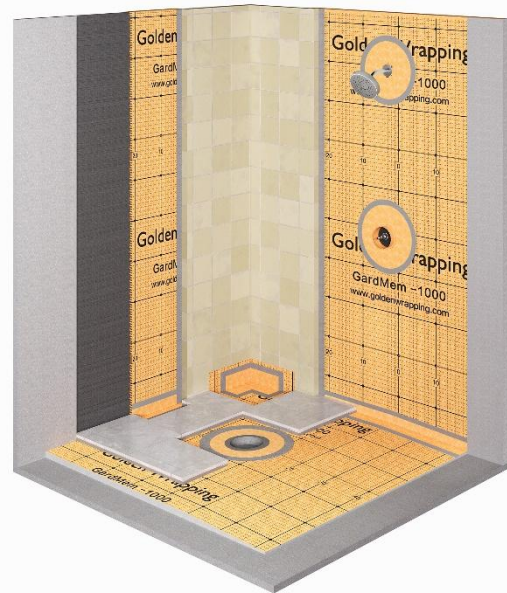
Technical Data Sheet (TDS)

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DESCRIPTION

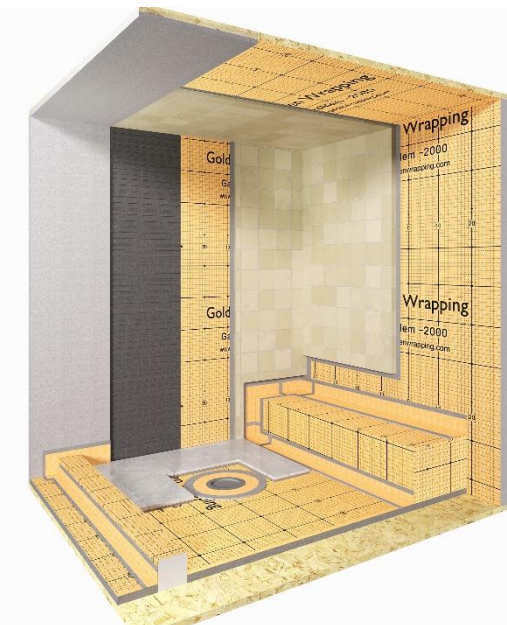
GardMem-1000

The GardMem-1000 is a flexible, sheet-applied waterproofing membrane and vapor retarder, engineered for use in various tile and stone applications. It effectively prevents water penetration and moisture-related damage, reducing the risk of mold and mildew growth. This makes it ideal for walls around shower and bathtub, intermittent-use steam showers, and other areas requiring vapor management. Fabricated with a soft thermoplastic polymer core and non-woven polypropylene fleece on both sides, GardMem-1000 securely bonds to a wide range of tile materials, including ceramic, porcelain, and stone. It can be installed over solid walls and floor substrates such as gypsum wallboards, cement backer boards, and mortar bases.



GardMem-2000

The GardMem-2000 is a high-performance, sheet-applied waterproofing and vapor management membrane with exceptionally low vapor permeability. Designed for wet and high-humidity environments, including continuous-use steam showers, it delivers superior protection compared to the standard GardMem-1000. Featuring a high-density polyethylene core with a specialized non-woven fleece on both sides, GardMem-2000 acts as an advanced vapor barrier, safeguarding substrates from moisture damage, mold, and mildew. Its unique fleece backing ensures a strong bond to both the substrate and the thin-set mortar, making it compatible with ceramic, porcelain, and stone tile installations.



WHERE TO USE

GardMem-1000 & -2000 sheet are used as waterproofing, uncoupling and anti-fracture membrane for cracked and damp substrates and substrates that are not fully cured before installing ceramic and stone tiles for internal and external surfaces. GardMem system is suitable for waterproofing various wet room, such as

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shower room, bath-tub surroundings, kitchens, balconies and terraces. It can create an uncoupling and vapor barrier layer on damp substrate.

ADVANTAGES







- **Waterproofing & Vapor-Proof:** Protects walls, floors, and ceilings from water damage and mold.
- **Prevents Mold Growth:** Acts as a barrier to mold, mildew, and other moisture-related issues by preventing moisture accumulation behind tiles.
- **Flexible:** The membrane is flexible and can accommodate movement in the substrate.
- **Thin Profile:** Designed to be installed with minimal buildup, allowing for easy integration into existing tile installations.
- **Bonding Surface:** The fleece backing creates a strong bond to the mortar, ensuring durability.
- **Quick & Easy Installation:** The membrane with printed gridlines is flexible and easy to cut and apply. It bonds securely to most substrates with Gold Wrapping-approved thin-set mortars. It is designed to withstand light traffic during installation and daily use once covered by tile.
- **Durability:** The material is resistant to wear and tear, and most chemicals commonly encountered in tile environments, providing long-lasting protection.
- **Seamless System Integration:** Works seamlessly with other Gold Wrapping products such as Gold Wrapping Band, providing a complete and integrated waterproofing solution.
- **Unique fleece design:** GardMem-2000 features a unique fleece, which enhances its ability to bond to both the substrate and the tiles, providing excellent waterproofing protection.
- **Superior Vapor Management:** GardMem-2000 is designed to manage vapor transmission, making it particularly effective in steam rooms and showers exposed to high levels of moisture and humidity.

System Components

Membrane

GardMem-1000 and GardMem-2000 waterproofing membrane, designed for use with various tile and stone installations over solid backing.

Ancillary Components

Components name		Application	Components name		Application
GardMem- BAND & GardMem-FlexBAND		BAND: Sealing strip for butt joints and corner joints FlexBAND: Sealing strip for expansion joint and flexible edge joints	GardMem-PC		Preformed Pipe Collar for pipe protrusion sealing
GardMem-IC		Preformed inside corner, 90°	GardMem-PS		Preformed Pipe Seal with overmolded rubber gaskets for pipe protrusion sealing
GardMem-OC		Preformed outside corner, 90°	GardMem-VS		Preformed Valve Seal with over-molded rubber gaskets for valve protrusion sealing

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Supply

Items	GardMem-1000				GardMem-2000			
	5-meter	10-meter	20-meter	30-meter	5-meter	10-meter	20-meter	30-meter
Thickness/mm	0.65	0.65	0.65	0.65	0.50	0.50	0.50	0.50
Width/m	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Roll Weight/kg	1.55-1.60	3.10-3.20	6.20-6.40	9.30-9.60	0.80-0.85	1.60-1.70	3.20-3.40	4.80-5.10

Custom lengths are often available. The above are typical data for the testing sample rolls.

Physical performance

Code compliance: ANSI A118.10, American National Standard Specification for Load Bearing, Bonded, Waterproof Membrane for Thin-Set Ceramic Tile and Dimension Stone Installation.

Entry	Properties	Test method	Specification	GardMem-1000	GardMem-2000
1	Seam strength, lb/2in	ASTM D751, ANSI A118.10	≥ 16	45	100
2	Breaking strength, psi	ASTM D751, ANSI A118.10	≥ 170	852 (MD) 840 (CD)	2185 (MD) 2072 (CD)
3	Dimensional stability (-15°F)	ASTM D1204, ANSI A118.10	≤ 0.7%	-0.009% (L) 0.002% (W)	-0.029% (L) 0.027% (W)
	Dimensional stability (+158°F)			0.021% (L) 0.012% (W)	0.016% (L) 0.068% (W)
4	Waterproofness	ASTM D4068-01, Annex2; ANSI A118.10	No leak	Pass	Pass
5	Shear strength to ceramic tile (7 day), psi	ASTM C482-9.8, ANSI A118.10	≥ 50	131	158
6	7-day water immersion shear strength, psi			80	110
7	4-Week dry, psi			144	147
7	Fungus and microorganism resistance	ANSI A118.10	No fungus and organism grown	Pass	Pass
8	Water transmission rate (perm)	ASTM E96 (Water method)	\	0.25	0.05
9	Crack-bridging ability	ASTM C836	\	2mm	1mm

Installation Instructions

- Surface preparation: Ensure the substrate is clean, even, load bearing and free from debris. The surface should be level and smooth to ensure proper adhesion.

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- Apply thin-set mortar and membrane: The GardMem membrane is adhered to the substrate with thin-set mortar. Apply the thin-set mortar to the substrate with a 1/4" x 3/16" (6x5mm) V-notched trowel, then press the membrane onto the mortar with the flat side of trowel to eliminate air pockets.
- Seaming & overlaps: Seams should be constructed by overlapping the edges of at least 2" (5 cm) using ANSI A118.4 compliant thin-set mortar, or by abutting the edges and covering the joints with GardMem-BAND.
- For inside and outside corners, adhere preformed corner sections (GardMem-IC, GardMem-OC).
- For wall and floor connections, use GardMem-BAND.
- Install GardMem-PS pipe seals at showerhead, body spray, and GardMem-VS at the mixing valve.
- GardMem membrane should be separated at existing expansion, structural and flexible edge joints. Cover the joints with GardMem-FlexBAND. To allow for greater movement, the center section of the GardMem-FlexBAND can be tucked into the cavity of the expansion joints.
- Flood testing of the waterproofing system: Prior to setting tile, wait for 24 hours to allow for final set of the mortar before testing to ensure waterproofing performance of the whole system.
- Tile Installation: Once the membrane is installed, tiles can be applied directly to the exposed membrane surface with thin-set mortar.

Safety & Handling

Users should thoroughly read and understand the technical data sheet before use. Handle carefully to prevent damage, and do not puncture or cut the membrane until installation. Maintain proper ventilation during installation, particularly when using adhesives. Always follow the manufacturer's safety guidelines.

Storage

- Follow a **two-year shelf life** and use it on a **first-in, first-out** basis.
- Store in a **well-ventilated, dry area**, away from **sunlight and rain**. The storage temperature should not exceed **120°F**.
- Keep off the ground under **tarps or other protective coverings** to prevent exposure to rain and ground moisture.
- Avoid prolonged exposure to **direct sunlight**.

DISCLAIMER

The above information and recommendations which are based on our experience are as for reference, they can't replace the customers' own experimental results. Since our company, our representatives or distributors can't control the transportation, storage, handling and use conditions of the products, the economic disputes and the quality accident caused by improper use can't be attributed to our suggestion. In any application, the customer shall be responsible for complying with obligations of third-party intellectual property rights. Without our consent, no one shall provide technical information to third parties.