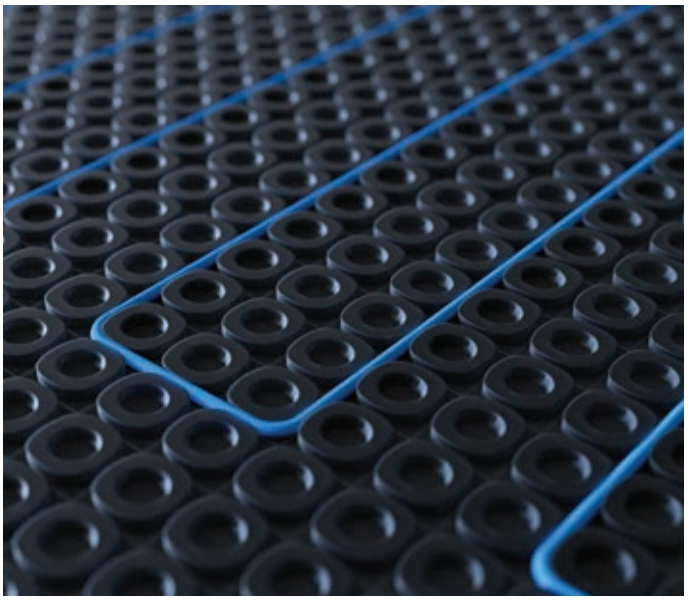
Membrane

Raychem

The integrated electric floor heating and uncoupling solution

PRODUCT OVERVIEW



Raychem Membrane is a tile underlayment that can be installed over the entire subfloor for uncoupling, crack isolation, and to make the installation of Raychem T2Blue+ floor heating cable quicker and easier.

Raychem Membrane is comprised of a polyethylene layer, with square-shaped pillars, that is heat-welded to a layer of non-woven polypropylene fabric. The fabric absorbs tile adhesive in order to bond the Membrane to the substrate below. The square-shaped pillars provide vapor management, allowing moisture to escape from the substrate during the curing process.

Raychem Membrane offers waterproofing when installed with waterproofing seam tape and waterproofing glue.

Once Raychem T2Blue+ is installed, floor coverings can be installed on top, using **tile adhesive or self-levelling compound.** Membrane is available in rolls of 5 m^2.

12 Total care warranty

20 Total care warranty

Additional benefits of Raychem Membrane

- Reduces the risk of tile cracks
- Can be applied on:
  - Wooden floor structure
  - Gypsum based underlayment
  - Cement based slab
  - Existing vinyl floor
- Raychem T2Blue+ can be installed with varied spacing for resulting in different output per m^2 of the floor.

For Raychem T2Blue+ 7W/m	For Raychem T2Blue+ 12W/m
55W/m^2 with 4 pillar spacing	95W/m^2 with 4 pillar spacing
75W/m^2 with 3 pillar spacing	125W/m^2 with 3 pillar spacing
90W/m^2 with 2-3-2 pillar spacing	150W/m^2 with 2-3-2 pillar spacing
110W/m^2 with 2 pillar spacing	

- Compatible with C2TES1 tile adhesive
- 'Extra Heavy' rating in the Robinson Floor Test (ASTM C627)
- Vapor and moisture management
- Uncoupling
- Load distribution
- Waterproofing when used in combination with seam tape (Proband 150) and waterproofing glue (Proband Koll)

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PRODUCT SELECTION

Raychem Membrane

Part #	Description	Area (m^2)	Dimensions	PKG Weight	PKG Size
2000005438	R-MEM-S-5M-ROLL - Roll of 5m^2 of Raychem Membrane	5 m^2	1 m x 5 m	5,1 kg	1000 mm x 220 mm
2000005412	R-MEM-PB150: PROBAND 150 - Seam Tape Roll	N/A	150 mm x 30 m	1,2 kg	150 mm x 155 mm
2000005413	R-MEM-PBK - PROBAND KOLL AB - bi-component sealant	N/A	N/A	15 kg	400 mm x 250 mm x 275 mm

Raychem T2Blue+ 7W/m

Model	Reference		Length	Total power	Coverage in m^2			
	without thermostat	with SENZ WIFI			2 pillars	2-3-2 pillars	3 pillars	4 pillars
R-BL7P-15M-105W	2000005312	2000005693	15	105	1.0	1.2	1.4	1.9
R-BL7P-20M-140W	2000005313	2000005694	20	140	1.3	1.6	1.9	2.5
R-BL7P-25M-175W	2000005314	2000005695	25	175	1.6	2.0	2.4	3.2
R-BL7P-30M-210W	2000005315	2000005696	30	210	1.9	2.4	2.9	3.8
R-BL7P-40M-280W	2000005316	2000005697	40	280	2.5	3.2	3.8	5.1
R-BL7P-50M-350W	2000005317	2000005698	50	350	3.2	4.0	4.8	6.3
R-BL7P-60M-420W	2000005318	2000005699	60	420	3.8	4.8	5.7	7.6
R-BL7P-80M-560W	2000005319	2000005700	80	560	5.1	6.3	7.6	10.1
R-BL7P-100M-700W	2000005320	2000005701	100	700	6.3	7.9	9.5	12.7
R-BL7P-120M-840W	2000005321	2000005702	120	840	7.6	9.5	11.4	15.2
R-BL7P-140M-980W	2000005322	2000005703	140	980	8.9	11.1	13.3	17.8
R-BL7P-160M-1120W	2000005323	2000005704	160	1120	10.1	12.7	15.2	20.3
R-BL7P-180M-1260W	2000005324	2000005705	180	1260	11.4	14.3	17.1	22.8
					110W/m^2	**90W/m^2**	**75W/m^2**	**55W/m^2**

Raychem T2Blue+ 12W/m

Model	Reference		Length	Total power	Coverage in m^2			
	without thermostat	with SENZ WIFI			2 pillars	2-3-2 pillars	3 pillars	4 pillars
R-BL12P-10M-120W	2000005325	2000005706	10	120	N/A	0.8	1.0	1.3
R-BL12P-15M-180W	2000005326	2000005707	15	180	N/A	1.2	1.4	1.9
R-BL12P-20M-240W	2000005327	2000005708	20	240	N/A	1.6	1.9	2.5
R-BL12P-25M-300W	2000005328	2000005709	25	300	N/A	2.0	2.4	3.2
R-BL12P-30M-360W	2000005329	2000005710	30	360	N/A	2.4	2.9	3.8
R-BL12P-40M-480W	2000005330	2000005711	40	480	N/A	3.2	3.8	5.1
R-BL12P-50M-600W	2000005331	2000005712	50	600	N/A	4.0	4.8	6.3
R-BL12P-60M-720W	2000005332	2000005713	60	720	N/A	4.8	5.7	7.6
R-BL12P-80M-960W	2000005333	2000005714	80	960	N/A	6.3	7.6	10.1
R-BL12P-100M-1200W	2000005334	2000005715	100	1200	N/A	7.9	9.5	12.7
R-BL12P-120M-1440W	2000005335	2000005716	120	1440	N/A	9.5	11.4	15.2
R-BL12P-140M-1680W	2000005336	2000005717	140	1680	N/A	11.1	13.3	17.8
R-BL12P-160M-1920W	2000005337	2000005718	160	1920	N/A	12.7	15.2	20.3
R-BL12P-180M-2160W	2000005338	2000005719	180	2160	N/A	14.3	17.1	22.8
					N/A	**150W/m^2**	**125W/m^2**	**95W/m^2**

Notes:

The combination of Raychem T2Blue+ and the Raychem Membrane offers flexible spacing for varying watt density, allowing installers flexibility on the job site. Square meter coverages above are estimates based on a square area and actual coverage will vary depending on the number of turns in the cable path (more turns result in slightly less coverage).

RAYCHEM MEMBRANE SPECIFICATIONS

Materials	Polyethylene sheet thermo-bonded to non-woven polypropylene fabric, 7.05 mm thick, 770g/m^2
Subfloor Bond	Apply C2TES1 tile adhesive with a square 6 mm x 6 mm notch trowel
Waterproofing	Yes, when used with waterproofing seam tape and waterproofing glue
Ratings	Robinson Floor Test (ASTM C627): 'Extra Heavy' rating ANSI A118.12 System Crack Resistance: 'High Performance' rating
Max Temp.	90°C
Storage Conditions	Store in a cool and dry place avoiding direct sunlight and heat sources
Available Formats	Roll of 5 m^2 (5 m x 1 m)

INSTALLATION: RAYCHEM MEMBRANE

1. Prefit Raychem Membrane onto the subfloor, cutting as required to ensure proper coverage of the install area and proper alignment of the pillars and channels.
2. Apply a suitable C2TES1 tile adhesive with a square 6mm x 6mm notch trowel to the substrate. Follow the tile adhesive manufacturer's preparation instructions.
3. Press Membrane into the tile adhesive using a roller loaded with 15 to 20 kg. Check the underside of the Membrane to ensure 100% tile adhesive coverage.
4. Position subsequent rolls of Membrane to ensure the edges do not overlap and the pillars and channels are aligned to facilitate the installation of Raychem T2Blue+. Repeat steps 3 and 4 as required.
5. If using Membrane as a waterproofing layer, apply waterproofing glue and waterproofing seam tape to all seams (see installation manual EU2456).
6. If the tile adhesive was allowed to harden prior to Raychem T2Blue+ installation, it may be necessary to chip hardened adhesive away from seams to facilitate Raychem T2Blue+ routing.
7. Route Raychem T2Blue+ throughout the heated area using consistent spacing to ensure even heat coverage.
8. Install the floor sensor in a conduit provided with the Raychem T2Blue+ cable in the middle of two cable runs of the Raychem T2Blue+. In order to install the conduit, part of the membrane should be removed using a utility knife. For waterproofing seam tape and waterproofing glue are needed.
9. Use a flat trowel to cover the membrane with C2TES1 tile adhesive or self-levelling compound to ensure heating cable is encapsulated with tile adhesive.
10. Install floor covering using C2TES1 tile adhesive.

Notes:

- If heavy mechanical loads are foreseen during the installation (e.g. heavy foot traffic or machinery), it is recommended to protect the Membrane with wooden planks to prevent damage
- Cable circuit resistance and electrical insulation resistance must be measured and recorded before, during and after installation for warranty coverage
- All wiring connections should be completed by a certified electrician

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