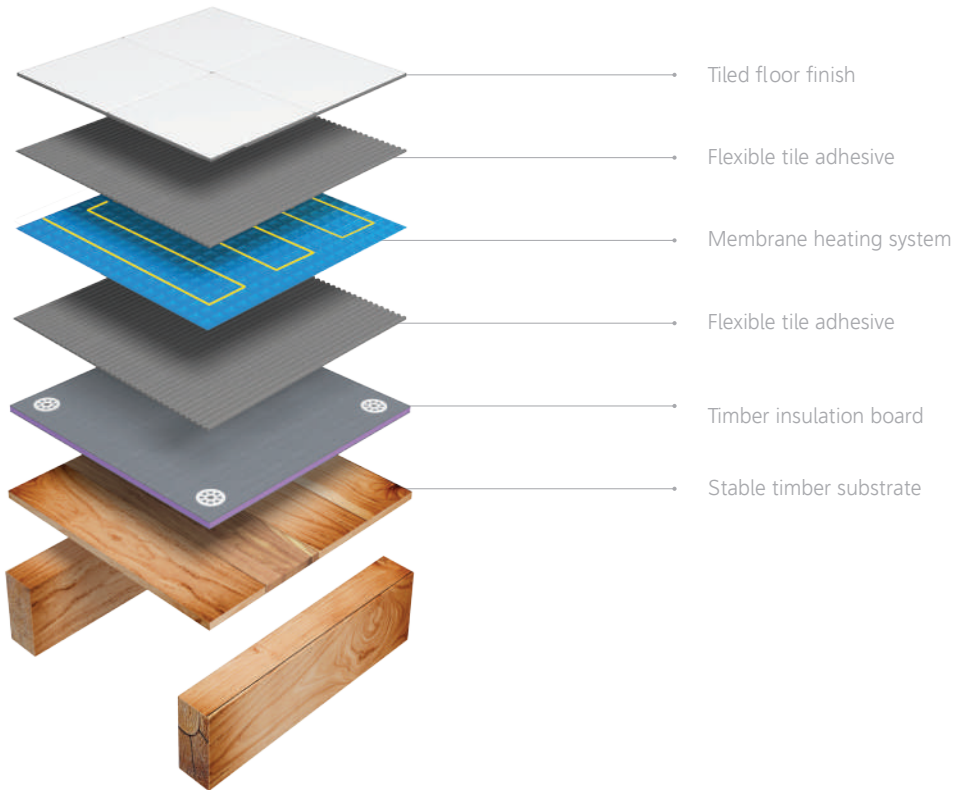


Our recommended membrane solution for tile and stone floors



LIFETIME WARRANTY

ThermoSphere heating solutions are covered by our lifetime warranty when you register your system online.

Product Overview

Combined underfloor heating and uncoupling system

ThermoSphere heating and uncoupling membrane is a proven combined electric underfloor heating and uncoupling system. Rated for extra heavy use, ThermoSphere membrane is one of the most robust heated uncoupling systems available.



Compatible with ThermoSphere
SmartHome Control



Underfloor heating

The membrane is designed to hold ThermoSphere membrane heating cables at variable spacing depending on the required output.



Uncoupling layer

Neutralises the stress caused by different rates of expansion and contraction in a tiled floor. This minimises the risk of tile delamination and cracking.



Superior vapour management

The studs and fleece backing in the membrane allow water vapour to escape effectively. This means you can save time by tiling over a substrate that is not fully cured.



Easy waterproofing

A fast and easy way to create a heated wetroom. ThermoSphere membrane can be installed on walls as well as floors and sealed with the ThermoSphere waterproofing kit.



Efficient load distribution

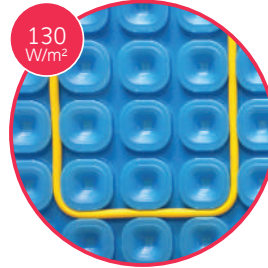
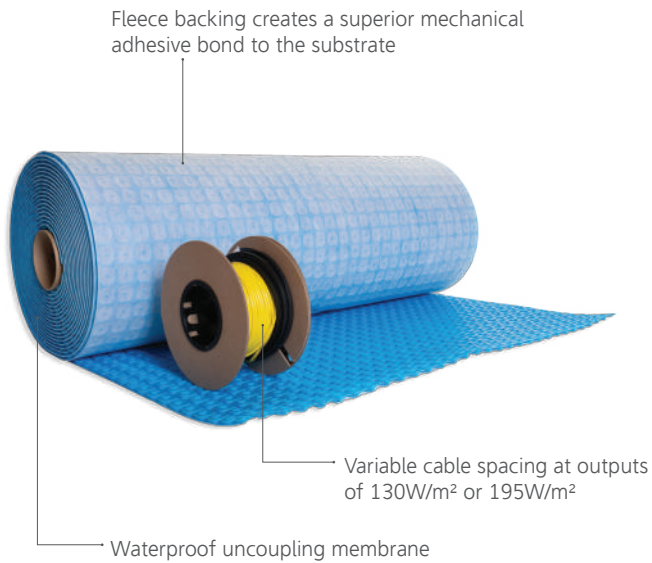
Heavy loads are no problem for floors that include a layer of ThermoSphere membrane. The stud structure transfers the load to the sub floor without risking cracks. Suitable for use in high traffic areas.

0800 019 5899
hello@thermosphere.com
www.thermosphere.com

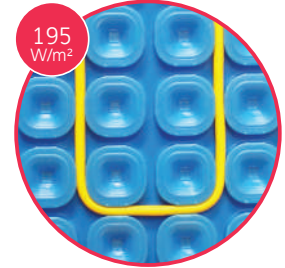
ThermoSphere is a trading name of Thermogroup Ltd.

Excellence in heating solutions.

Technical Data



130W/m²: Perfect for a primary heat source when covered 85% of the floor



195W/m²: Designed for areas of higher heat loss like conservatories.

Installation overview

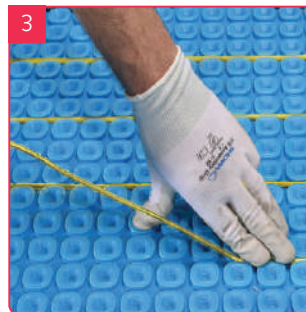
ThermoSphere electric underfloor heating membrane is quick and easy to install. This overview gives a guide to the basics. Always read the instructions in full before attempting your own installation.



1 Spread tile adhesive
Spread a flexible cement based tile adhesive over the floor



2 Lay the membrane
Roll the membrane out over the whole floor and press into the adhesive



3 Install the cable
Press the heating cables into the membrane, in the areas that you want to be heated



4 Install the tiles
Use a flexible adhesive to fix your tiled floor finish directly over the membrane

Always check with your floor finish manufacturer for suitability of use with floor heating and maximum temperature guidelines.



This is an illustrative guide only. Read the instruction manual that is supplied with every ThermoSphere system, in full, before attempting to install a heating system. Search "ThermoSphere" on Youtube and watch the videos.

ThermoSphere membrane

Specify enough membrane to cover the whole floor

Stock Code	Description	Size	Unit
HDM-001	Decoupling Membrane 1m ²	1 x 1m	Panel
HDM-005	Decoupling Membrane 5m ²	5 x 1m	Roll
HDM-015	Decoupling Membrane 15m ²	15 x 1m	Roll

ThermoSphere membrane heating cables

Select a cable to fit the heated area at the output per m² that you require. Use 3 row spacing for 130Wm² or 2 row spacing for 195Wm²

Stock Code	Length (m)	Area 130Wm ² (m ²)	Area 195Wm ² (m ²)	Output (W)	Resistance (Ω)
HDMC-012-0150	12	1.15	0.8	150	352.7
HDMC-018-0225	18	1.73	1.15	225	235.1
HDMC-025-0300	25	2.31	1.54	300	176.3
HDMC-031-0375	31	2.88	1.92	375	141.1
HDMC-037-0450	37	3.46	2.31	450	117.6
HDMC-050-0600	50	4.62	3.08	600	88.2
HDMC-061-0750	61	5.77	3.85	750	70.5
HDMC-075-0900	75	6.92	4.62	900	58.8
HDMC-100-1200	100	9.23	6.15	1200	44.1
HDMC-125-1500	125	11.54	7.69	1500	35.3
HDMC-150-1800	150	13.85	9.23	1800	29.4
HDMC-200-2400	200	18.46	12.31	2400	22.0

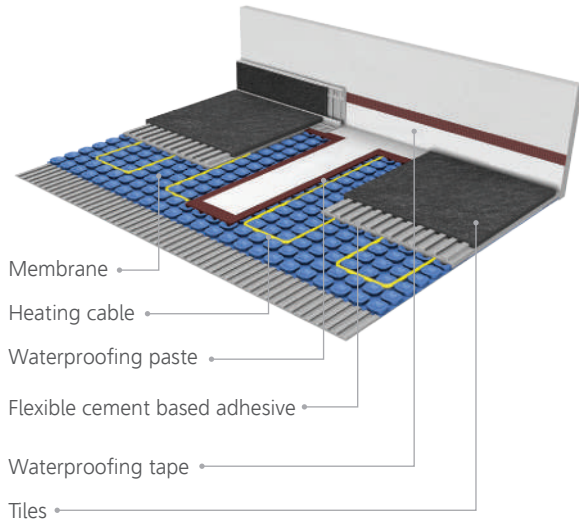
Waterproofing accessories

Stock Code	Description	Coverage	Size	Unit
HDM-WP-01	Waterproofing Paste	Joins: 300g/lm	5kg	Bucket
HDM-WT-01	Waterproofing Tape	10lm	10m	Roll

Other compatible floor build up solutions

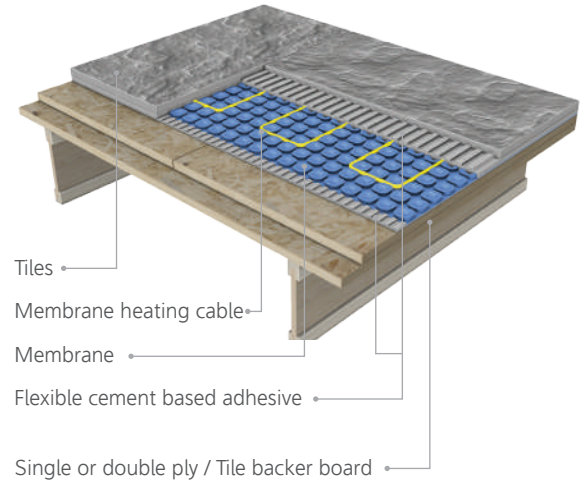
ThermoSphere heating and uncoupling membrane is designed for use under tiles and can be installed over a variety of substrates.

Heated wetrooms installation



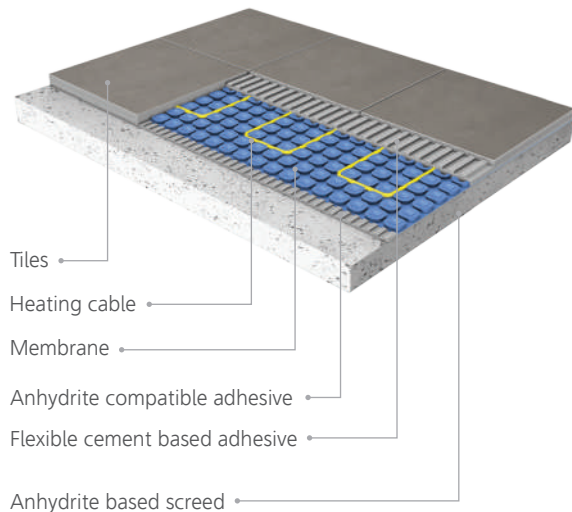
If a timber, concrete or anhydrite screed is exposed to moisture the tile layer above can become damaged and completely delaminate as a result.

Single or double ply over a ceiling void



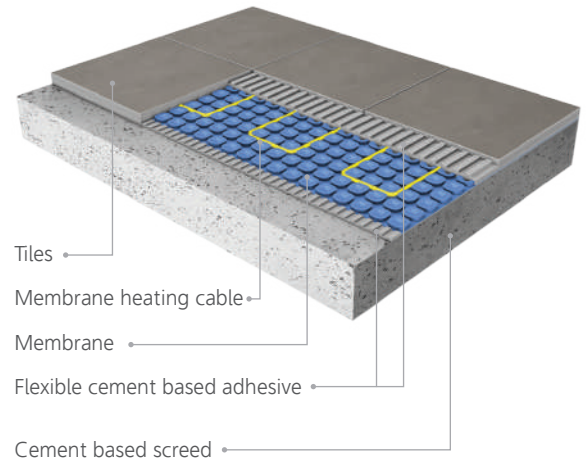
Plywood panels are vulnerable to moisture and large changes in humidity which can cause expansion, contraction, bending and deflection.

Anhydrite based screed installation



Regulations state that anhydrite (calcium sulphate) screeds must have a residual moisture level below 0.5% before tiling can begin. Failure to observe these guidelines can result in delamination and detachment of the tiles.

Insulated concrete screed substrate



The curing process of concrete screeds can bring about long term form changes in the substrate resulting in tensions between the substrate and floor finish. These tensions can lead to cracking and delamination.