



MAPEHEAT

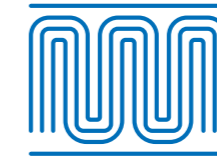
Electric floor heating systems



MAPEHEAT

Electric floor heating systems

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Floor Heating Without the Hassle

Mapeheat Floor Heating Systems are easy to install, electric floor heating systems that combine versatility with advanced new technology.

Mapeheat Membrane is an underlayment that can be installed over the entire subfloor for uncoupling, crack-isolation, waterproofing and floor heating purposes. It can eliminate the need for a second layer of plywood or concrete backer board in most tile installations. The membrane is designed to be used in conjunction with **Mapeheat Cable** heating systems.

Membrane pillars have been designed to embed **Mapeheat Cable** for an easy installation method and to guarantee even heat distribution.



ANTI-FRACTURE



WATERPROOFING



HIGH THERMAL
CONDUCTIVITY

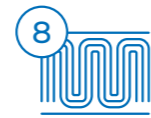
ICONS LEGEND



COMMERCIAL ENVIRONMENTS



EASY INSTALLATION



AVAILABLE IN MULTIPLE SIZES



DOMESTIC ENVIRONMENTS



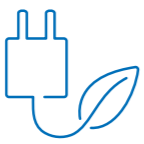
WATERPROOF



THIN



OLD CONSTRUCTION BUILDINGS



ENERGY SAVING



ANTI-FRACTURE



WHERE TO USE



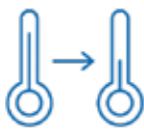
QUICK INSTALLATION



CHILD LOCK



KITCHENS AND FOOD INDUSTRY



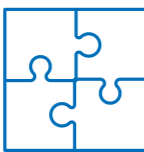
HIGH THERMAL CONDUCTIVITY



WIFI ENABLED



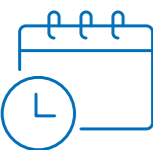
BATHROOMS



PART OF A SYSTEM



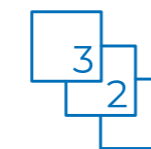
CONTROL MODES



EVENT TIMER

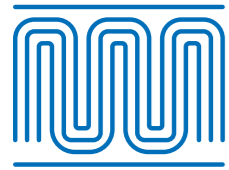


INTELLIGENT LEAF



MULTIPLE DISPLAY SETTINGS





Mapeheat Membrane

DESCRIPTION

Lightweight uncoupling anti-fracture and waterproofing membrane for electrical underfloor heating

This patented membrane is designed to speed up the installation process of the **Mapeheat Cable** floor heating systems, whilst having the added benefits of uncoupling anti-fracture and waterproofing.



MATERIAL	polypropylene	WEIGHT	750g per m ²
THICKNESS	5.5 mm	PACKAGING	15 x 1 m roll



THIN

With a thin profile the membrane has a thickness of less than 6 mm



EASY INSTALLATION

The membrane can be fitted using Mapei C2 adhesive



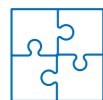
QUICK INSTALLATION

Allows versatile cable installation



WATERPROOFING

The membrane provides a waterproof barrier



PART OF A SYSTEM

To be used with **Mapeheat Cable**

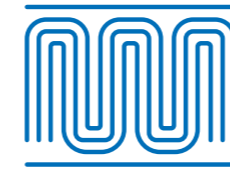
FOR USE WITH

- Ceramics, porcelain and natural stone tiles and mosaics*
- Real wood and laminate flooring
- Luxury vinyl tiles and sheet vinyl
- Levelling compounds

**Mosaics must be suitable for use with underfloor heating. Check with manufacturer*



AREAS OF USE

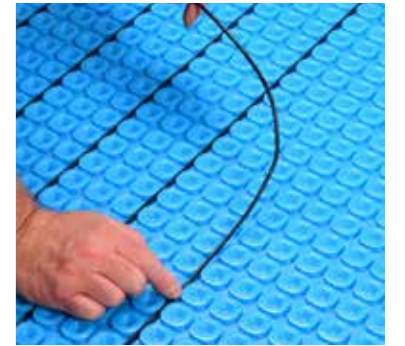


Mapeheat Cable

DESCRIPTION

Radiant heating cable for the creation of heated floors

A free-form, twin coil, floor heating cable for use in any residential or commercial interior room where the comfort of radiant floor heating is desired.



OPERATING VOLTAGE	230 V	COVERAGE	1.1 m ² - 12.4 m ²
POWER OUTPUT	12 W/m	PACKAGING	reel in cardboard box
		WARRANTY	12 years upon completion of the required documentation, visit www.mapei.co.uk



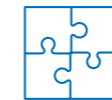
WET AREAS

Is suitable to be used in showers, wet rooms and steam rooms



THIN

The ultra thin lead fits perfectly into the **Mapeheat Membrane**



PART OF A SYSTEM

To be used with **Mapeheat Membrane**



AVAILABLE IN MULTIPLE SIZES

8 options ranging from 14.5 m to 98 m



EASY INSTALLATION

The cable easily and quickly fits into the **Mapeheat Membrane**

FOR USE WITH

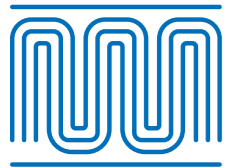
- Ceramics, porcelain and natural stone tiles and mosaics*
- Levelling compounds - when used in conjunction with **Ultraplan Renovation Screed 3240** smoothing compound and limited to 95 w/m², this system can be used over wooden substrates and/or receive resilient floor coverings such as wood, LVT and sheet vinyl

**Mosaics must be suitable for use with underfloor heating. Check with manufacturer*



AREAS OF USE



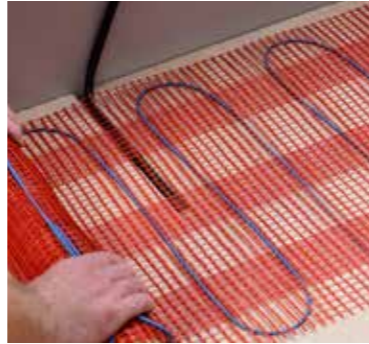


Mapeheat Mesh

DESCRIPTION

Self-adhering, pre-wired, floor heating mesh

A self-adhesive, pre-wired, floor heating mesh that bonds to the subfloor during the layout process. Its compatibility with most subfloor types and its low profile (4.5 mm) makes it ideal for renovation projects.



OPERATING VOLTAGE	230 V	COVERAGE	various between 1 m ² to 12 m ²
POWER OUTPUT	90 W/m ² or 160 W/m ²	PACKAGING	cardboard box
		WARRANTY	12 years upon completion of the required documentation, visit www.mapei.co.uk



EASY INSTALLATION

Self-adhesive, easy roll out



WET AREAS

Is suitable to be used in showers, wet rooms and steam rooms



QUICK INSTALLATION

Pre sized systems for rapid application

FOR USE WITH

- All types of ceramic, porcelain and natural stone tiles
- Levelling compounds - when used in conjunction with **Ultraplan Renovation Screed 3240** smoothing compound and limited to 90 w/m² mat, this system can be used over wooden substrates and/or receive resilient floor coverings such as wood, LVT and sheet vinyl
- Can be bedded directly in adhesive if required

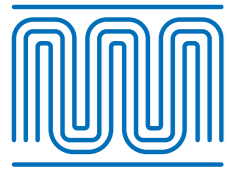


AREAS OF USE



Mapeheat Cable 12 W		A area (m ²)		
P Heating power (W)	L Length (m)	95 W/m ²	125 W/m ²	150 W/m ²
180	14.5	1.8	1.4	1.1
250	20	2.5	1.9	1.6
325	26.5	3.4	2.5	2.1
435	35.5	4.5	3.4	2.8
565	46	5.8	4.4	3.6
665	55	7.0	5.2	4.4
895	73	9.3	6.9	5.8
1210	98	12.4	9.3	7.8
Calculate heating cable spacing: (mm) = x = (A/L) x 1000		125 mm (4 pillars)	95 mm (3 pillars)	80 mm (2-3-2 pillars)

Mapeheat Mesh				
Size (m)	Coverage (m ²)	Code	Product Name	Watts
0.5 x 2.0	1.0	2869601	Mapeheat Mesh 90	90
		3221301	Mapeheat Mesh 160	160
0.5 x 3.0	1.5	2869701	Mapeheat Mesh 90	135
		3221401	Mapeheat Mesh 160	240
0.5 x 4.0	2.0	2869801	Mapeheat Mesh 90	180
		3221501	Mapeheat Mesh 160	320
0.5 x 5.0	2.5	2869901	Mapeheat Mesh 90	225
		3221601	Mapeheat Mesh 160	400
0.5 x 6.0	3.0	3220101	Mapeheat Mesh 90	270
		3221701	Mapeheat Mesh 160	480
0.5 x 7.0	3.5	3220201	Mapeheat Mesh 90	315
		3221801	Mapeheat Mesh 160	560
0.5 x 8.0	4.0	3220301	Mapeheat Mesh 90	360
		3221901	Mapeheat Mesh 160	640
0.5 x 9.0	4.5	3220401	Mapeheat Mesh 90	405
		3222101	Mapeheat Mesh 160	720
0.5 x 10.0	5.0	3220501	Mapeheat Mesh 90	450
		3222201	Mapeheat Mesh 160	800
0.5 x 12.0	6.0	3220601	Mapeheat Mesh 90	540
		3222301	Mapeheat Mesh 160	960
0.5 x 14.0	7.0	3220701	Mapeheat Mesh 90	630
		3222401	Mapeheat Mesh 160	1120
0.5 x 16.0	8.0	3220801	Mapeheat Mesh 90	720
		3222501	Mapeheat Mesh 160	1280
0.5 x 18.0	9.0	3220901	Mapeheat Mesh 90	810
		3222601	Mapeheat Mesh 160	1440
0.5 x 20.0	10.0	3221101	Mapeheat Mesh 90	900
		3222701	Mapeheat Mesh 160	1600
0.5 x 24.0	12.0	3221201	Mapeheat Mesh 90	1080



Installation of Mapeheat

The installation of Mapeheat Cable with Mapeheat Membrane and Mapeheat Mesh

1 Measuring the area and material

Unroll the membrane or mesh and cut it to the shape and size of the area, taking into account the presence of side walls, bond-beams, pillars, drains, etc. The **membrane may be cut** to shape with simple tools, such as scissors or a craft knife.



2 Cutting to size

Using a sharp knife or scissors cut to required size.



3 Floor probe

Location should be pre-planned to fall between heating elements. Channel to be routed out in substrate to receive floor probe conduit.



4 Preparation of the substrate

Make sure the area is smooth, **dry and free from all contamination** likely to inhibit subsequent bonding. Prime substrate where required, using a suitable Mapei primer.



5 Application of the heating system

The membrane can be fixed to the substrate using suitable S1 adhesive such as **Keraquick S1**.



5a

Apply **Mapeheat Membrane** directly to the wet adhesive ensuring full contact is achieved, the use of a weighted roller will be advantageous.



5b

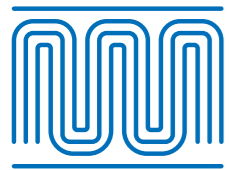
Once adhesive has set (2-3 hours with Mapei **Keraquick S1**) the cable can be clicked into place. Cold to warm cable connection must be started in the floor at the location where the thermostat is to be positioned on the wall. Click the cable into place at the required spacing (2, 3 or 2-3-2) dependent on the wattage required.



5c

Unravel the self-adhesive mat and secure to the prepared substrate.

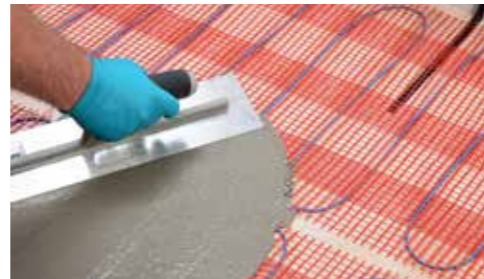




Installation of Mapeheat

6 Applying smoothing compound

Smooth over system using a suitable smoothing compound, such as **Ultraplan Renovation Screed 3240** at a minimum thickness of 3mm above the highest point. Where resilient floor coverings such as wood, LVT and sheet vinyl are to be applied check with the flooring manufacturer for their recommended minimum thickness of smoothing compound. Once cured the surface is ready to receive the intended floor covering.



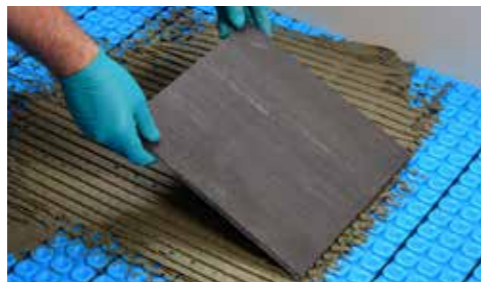
6a Applying tile adhesive directly to systems

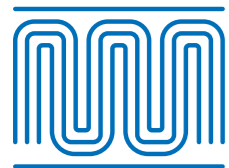
Apply a minimum of an S1 classified tile adhesive such as **Keraquick S1**, covering the system with a continuous even coat, before carefully running applied adhesive through with a suitable notched trowel.



6b Bonding selected tiles

Install selected ceramic and porcelain tiles into the applied adhesive using a twisting/sliding motion. Occasionally lift a tile to check full contact is achieved, where required use a larger size trowel and back buttering to ensure 100% coverage.





Thermostats

Mapeheat thermostats are the perfect companion to the underfloor heating element and complete your Mapeheat System.

There are three thermostats in the Mapeheat range. All are easily connected to the selected underfloor heating system and easy to install.



Mapeheat Thermo Basic

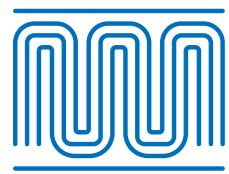


Mapeheat Thermo Touch



Mapeheat Thermo Connect





Mapeheat Thermo Basic

DESCRIPTION Programmable floor heating thermostat

A digital timer thermostat for the Mapeheat floor heating systems, equipped with a large digital display and intuitive software for optimal ease of use.



DIMENSIONS	84 mm x 84 mm x 40 mm	PACKAGING	cardboard box
SUPPLY VOLTAGE	230 VAC	WARRANTY	2 years upon completion of the required documentation, visit www.mapei.co.uk



ENERGY SAVING

The thermostat calculates when it needs to start heating to reach the desired temperature. The thermostat also monitors energy consumption



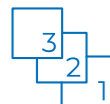
EASY TO USE

An intuitive wizard for set up



CHILD LOCK

Preventing any accidental changes to the system



MULTIPLE DISPLAY SETTINGS

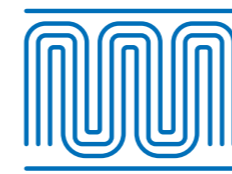
Choose between the set or actual temperature, date and time or screen saver

FOR USE WITH

- **Mapeheat Cable** or **Mapeheat Mesh**



AREAS OF USE



Mapeheat Thermo Touch

DESCRIPTION Programmable floor heating thermostat

An "in wall" mounted gloss finish programmable thermostat for the Mapeheat floor heating systems.

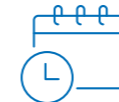


DIMENSIONS	86.3 mm x 86.3 mm x 41 mm	PACKAGING	cardboard box
SUPPLY VOLTAGE	230 VAC	WARRANTY	2 years upon completion of the required documentation, visit www.mapei.co.uk



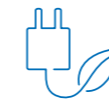
INTELLIGENT LEAF BUTTON

Smart multi-purpose button to switch ON/OFF change modes and save changes



EVENT TIMER

Built in 4 event timer function



ENERGY SAVING

Open window function cuts the heating when it feels a sudden drop of temperature meaning that someone is opening a window for ventilation purposes



EASY TO USE

A 10 setting set up menu. User only needs to set clock and day



MOTION SENSOR

Motion sensor lights up the screen when it detects proximity of approx. 10cm of the thermostat in order not to need to touch the thermostat to light it up (and wake the thermostat)



CONTROL MODES

The thermostat has 2 control modes. Constant mode (1 temperature setup only) and programme mode (economic weekly timer)

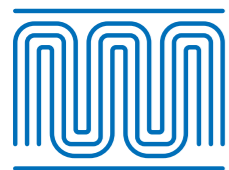
FOR USE WITH

- **Mapeheat Cable** or **Mapeheat Mesh**



AREAS OF USE





Mapeheat Thermo Connect

DESCRIPTION

Programmable WiFi-enabled smart thermostat for floor heating systems

A WiFi-enabled, smart, floor-sensing thermostat designed specifically for today's smart home. Homeowners can monitor, control and program their **Mapeheat floor heating system** through the **Mapeheat Thermo Connect thermostat**, via a free smartphone app (iOS and Android). The thermostat is compatible with voice commands through Alexa enabled smart speakers or Google Home enabled smart speakers.



DIMENSIONS

85.5 mm x 84.3 mm x 41.9 mm

PACKAGING

cardboard box

SUPPLY VOLTAGE

230 VAC

WARRANTY

2 years upon completion of the required documentation, visit www.mapei.co.uk



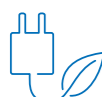
WIFI ENABLED

Programmable via the free SENZ-WIFI smartphone app (iOS and Android). Works with popular smart home technologies such as Amazon Alexa® devices and Google Assistant™ virtual personal assistant



OPERATING MODES

The thermostat has 7 modes that can be used including 3 that are programmable



ENERGY SAVING

The thermostat calculates when it needs to start heating to reach the desired temperature. The thermostat also monitors energy consumption



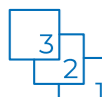
EASY TO USE

An intuitive wizard for set up



CHILD LOCK

Preventing any accidental changes to the system



MULTIPLE DISPLAY SETTINGS

- 2 colour schemes (black and white)
- Brightness of the screen can be adapted
- Home screen can be activated or deactivated

AREAS OF USE



FOR USE WITH

- **Mapeheat Cable** or **Mapeheat Mesh**



Selection Charts

Mapeheat Thermostats

	MAPEHEAT THERMO BASIC	MAPEHEAT THERMO TOUCH	MAPEHEAT THERMO CONNECT
FEATURE			
EASY TO USE			
ENERGY SAVING			
CHILD LOCK			
MULTIPLE DISPLAY SETTINGS			
INTELLIGENT LEAF BUTTON			
EVENT TIMER			
OPERATING MODES			
WIFI ENABLED			

TECHNOLOGY FROM



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MAPEI WORLD LONDON CITY

6 Great Sutton Street
Clerkenwell
London
EC1V 0BX
020 3302 9610
clerkenwell@mapei.co.uk

MAPEI UK LTD

Mapei House
Steel Park Road
Halesowen
West Midlands. B62 8HD
0121 508 6970
info@mapei.co.uk



0121 508 6970 | mapei.co.uk

