MAPEHEAT
Electric floor heating systems
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Floor Heating Without the Hassle ........................................... 5
Icons Legend ........................................................................... 6
Mapeheat Membrane ............................................................. 8
Mapeheat Cable ................................................................. 9
Mapeheat Mesh ................................................................. 10
Heating System Selection Charts ........................................... 11
Installation of Mapeheat ....................................................... 12
Thermostats ................................................................. 16
Mapeheat Thermo Basic ....................................................... 18
Mapeheat Thermo Touch ...................................................... 19
Mapeheat Thermo Connect ................................................. 20
Thermostat Selection Charts ................................................ 21
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.
### Icons Legend

<table>
<thead>
<tr>
<th>Icon</th>
<th>Description</th>
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<tr>
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### Where to Use

- Kitchens and Food Industry
- Bathrooms
- Domestic Environments
- Commercial Environments
- Old Construction Buildings
- +15 °C

### Where to Use

- Kitchens and Food Industry
- Bathrooms
- Domestic Environments
- Commercial Environments
- Old Construction Buildings
- +15 °C

### Characteristics

- Easy Installation
- Waterproof
- Energy Saving
- Quick Installation
- High Thermal Conductivity
- Wifi Enabled
- Child Lock
- Control Modes
- 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 m²

**Thickness**
5.5 mm

**Packaging**
15 x 1 m roll

**Areas of Use**
- Ceramics, porcelain and natural stone tiles
- 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*

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 m² - 12.4 m²

**Power Output**
12 W/m

**Packaging**
reel in cardboard box

**Warranty**
12 years upon completion of the required documentation, visit www.mapei.co.uk

**Areas of Use**
- Ceramics, porcelain and natural stone tiles
- 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*
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

Power Output
90 W/m² or 160 W/m²

Coverage
various between 1 m² to 12 m²

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

Areas of Use

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

Mapeheat Cable 12 W

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<tr>
<th>Heating power (W)</th>
<th>Length (m)</th>
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Calculate heating cable spacing:
(mm) = x = (A/L) x 1000

Mapeheat Mesh

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125 mm (4 pillars)
95 mm (3 pillars)
80 mm (2-3-2 pillars)
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 Ultrplan 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.
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

**AREAS OF USE**
- House
- Kitchen
- Office
- Bathroom

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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)

**AREAS OF USE**
- House
- Kitchen
- Office
- Bathroom

---
Mapeheat Thermostats

### Mapeheat Thermostat 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.

<table>
<thead>
<tr>
<th>DESCRIPTION</th>
<th>Programmable WiFi-enabled smart thermostat for floor heating systems</th>
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<tbody>
<tr>
<td>AREAS OF USE</td>
<td>- 2 colour schemes (black and white) - Brightness of the screen can be adapted - Home screen can be activated or deactivated</td>
</tr>
<tr>
<td>FOR USE WITH</td>
<td>Mapeheat Cable or Mapeheat Mesh</td>
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</tbody>
</table>

| DIMENSIONS | 85.5 mm x 84.3 mm x 41.9 mm |
| PACKAGING | cardboard box |
| SUPPLY VOLTAGE | 230 VAC |

**FEATURES**

- Easy to use
- Energy saving
- Child lock
- Multiple display settings
- Operating modes
- WiFi enabled

### FEATURE

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**SUPPLY VOLTAGE**

230 VAC

**WARRANTY**

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

**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