

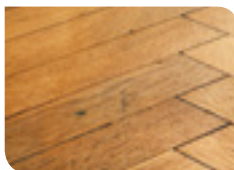
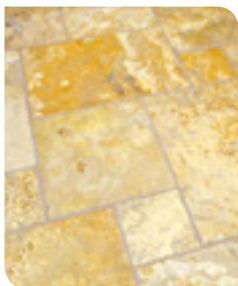
Which system is right for you?

Choosing the right system for your floor covering can seem confusing. Follow our handy guide to which underfloor heating system is best suited to your floor finish and requirements.

Heat Mat manufactures a number of underfloor heating mats and cables for different applications. There is a system for almost any floor covering.

Your floor covering will have a big impact on your choice of systems. You may also have a choice of output if you choose a mat or loose cable system, so make sure you match the system output to your requirements.

The first question to ask when choosing your underfloor heating system is what will be going on top?



		Floor Type						
		Tile	Stone	Engineered Wood	Laminate	Vinyl	Carpet	Concrete
System	110W Heating Mats	✓	✗	✗	✗	✗	✗	✗
	160W Heating Mats	✓	✓	✗	✗	✗	✗	✗
	110W/160W Mats & Levelling Compound	✓	✓	✓	✓	✓	✓	✓
	200W Heating Mats	✓	✓	✗	✗	✗	✗	✓
	Loose cable (3mm or FlexHeat)	✓	✓	✗	✗	✗	✗	✓
	Underlamine system	✗	✗	✓	✓	✗	✗	✗
	Combymat system	✗	✗	✓	✓	✗	✗	✗
	Combymat with overlay boards	✗	✗	✗	✗	✓	✓	✗
	In-Screed cable	✓	✓	✓	✓	✓	✓	✓

If you have any questions our dedicated and expert technical support team can assist you on 01444 247020.



Key benefits of each system

System	Benefits
110W Heating Mats	✓ Best suited to energy-efficient properties ✓ Lowest power supply requirement per square metre ✓ Very low build height
160W Heating Mats	✓ Powerful enough to heat moderately well insulated rooms ✓ Faster reacting than an in-screed system of the same power ✓ Very low build height
110W/160W Heating Mats & Levelling Compound	✓ Suitable for use beneath virtually any floor covering ✓ A very hard wearing system for vinyl and carpet floors ✓ Floor coverings can be changed without affecting the system
200W Heating Mats	✓ Powerful enough to heat high heat loss rooms like conservatories ✓ Fastest warm-up time of all Heat Mat systems ✓ Faster reacting than an in-screed system of the same power
Loose Cable (3mm or FlexHeat)	✓ Ideal for small or complicated rooms, can easily be fitted around fixed units ✓ Alter the heat output by adjusting the space between the cables ✓ Great value option and simple to install
Underlamine System	✓ Low build height with 6mm insulation supplied as part of the system ✓ Fully earthed so safe for use in all rooms including bathrooms ✓ No need for levelling compound or other wet trade
Combymat System	✓ Very cost-effective system ✓ Low build height, and 6mm insulation supplied as part of the system ✓ No need for levelling compound or other wet trade
Combymat with Overlay Boards	✓ Heat beneath carpet and vinyl without needing a levelling compound ✓ Low build height with 6mm insulation supplied as part of the system ✓ Fast to install – entire installation can be carried out in a day as there is no wet trade
In-Screed Cable	✓ The most cost-effective system to purchase and install ✓ Provide whatever output you require by altering the distance between cables ✓ No extra build height - the system sits within a screed layer ✓ Perfect for utilising the energy from PV systems as they can charge up the screed layer during the day, like a night storage radiator
Thermal Insulation Boards	✓ Use beneath heating mats and cables to dramatically improve the warm-up time and energy efficiency of a system ✓ In badly insulated areas they can pay for themselves in as little as three years through energy savings ✓ Can be used to strengthen existing floors rather than using ply boards

Frequently asked questions

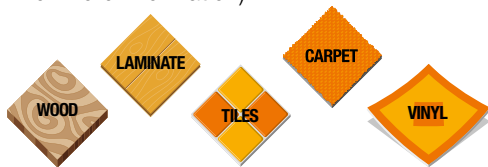
What are the benefits of electric underfloor heating?

- Easy to install – our cut-and-turn mats and loose cables are fast to fit
- Spreads heat evenly as warm air rises from the entire floor surface
- Maintenance free – there are no ongoing upkeep or servicing costs
- Minimises dust and allergens – prevents dust circulating unlike radiators
- Can be retrofitted – ideal for renovation projects

Which system do I need?

The most suitable type of system for your space depends on a number of factors:

- The size of the room
- How well insulated the space is
- The purpose – if the system supplements radiators or is the only heating source
- The floor base underneath
- The floor covering on top (see pages 4 & 5 for more information)



There are a variety of Heat Mat systems available for installation under a huge range of floor coverings from tile and wood, to carpet or vinyl. Use our loose wire systems for small awkward spaces; heating mats for larger spaces; and 6mm In-screed cables for cost-effective, ground-up installations.

How much does electric underfloor heating cost to run?

Although some people believe underfloor heating is expensive to run, the reality is that both the initial installation fee and the ongoing running costs can represent great value for money.

It costs less than 10p to run 1m² of underfloor heating at maximum power for six hours.



Our most cost-effective system, the 6mm In-screed cable, costs from as little as £20.50 per square metre including VAT and a touchscreen thermostat. Once installed there are no ongoing maintenance costs.

The running costs of a Heat Mat system will depend on the following:

- How well insulated the room is
- The output and type of system
- Your energy tariff
- The thermostat settings you choose

Examples of monthly running costs*

Room Type	Heated Area m ²	AM Heating Hours	PM Heating Hours	Monthly cost
En-suite	2.5	2	1	£1.82
Bathroom	3.5	2	2	£3.16
Kitchen	6	0	2	£4.39
Lounge	10	1	3	£10.80
Conservatory	12	0	4	£16.89

*These figures are based on Heat Mat's 160W/sqm heating mats laid directly onto 10mm Heat Mat Thermal insulation boards with porcelain tiles above in a property meeting the latest Part L Building Regulations standard. The energy cost of 8.610p kWh is based on Sainsbury's Energy SE Fixed Price June 2017 deal. Prices are correct as of June 2016. Source – www.uswitch.com
For more details on assumptions see www.heatmat.co.uk/running-costs



Underfloor Heating Mats



110W Underfloor heating mats suitable for energy-efficient, well insulated homes

Product code	Coverage (m ²)	Length(m)	Wattage (W)
All Heat Mat underfloor heating mats are 0.5m wide			
PKM-110-0110	1.1	2.2	120W
PKM-110-0140	1.4	2.8	150W
PKM-110-0200	2.0	4.0	220W
PKM-110-0300	3.0	6.0	320W
PKM-110-0410	4.1	8.2	450W
PKM-110-0490	4.9	9.8	540W
PKM-110-0580	5.8	11.6	660W
PKM-110-0700	7.0	14.0	770W
PKM-110-0830	8.3	16.6	930W
PKM-110-0900	9.0	18.0	1020W
PKM-110-1020	10.2	20.4	1090W
PKM-110-1150	11.5	23.0	1250W

- Ideal for energy-efficient properties
- Quick and easy to install
- 3mm cable for low build height
- Pre-spaced heating cable
- Lifetime warranty



Our ultra-thin high-quality heating mats are ideal for new builds, or well insulated, energy-efficient

properties, where a low heat output is sufficient.

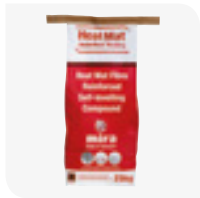
The 110W mat is very economical over larger areas due to the lower power consumption. This system is particularly suited to Passivhaus and sustainable properties. They are also suitable for projects where a limited power supply is available.



Underfloor Heating Accessories

Self-levelling Compound

- **Fast drying, allows further surface treatment after 6 hours**
- **Minimum of 12mm required for underfloor heating**



Our self-levelling compound is specifically designed for use with electric underfloor heating and is suitable for all floor coverings.

The compound is poured onto your chosen heating system to provide an even surface for the final floor covering. It is essential the correct primer is also used with levelling compound. We can supply this and advise you on the appropriate volume based on room size.

An essential item when using the following floor coverings: vinyl, carpet, laminate or engineered wood over 18mm thick.

Cable Trace Lite

- **Identify where heating cables are beneath most floor coverings including tile and laminate**
- **Allows safe installation of door stops and towel rails**
- **Cost-effective diagnostic device**



Our Cable Trace is a diagnostic device for locating heating cables. The heat-sensitive sheet allows you to accurately find heating cables under the floor.

Cable Safe Monitor

- **Simple-to-use – alarm indicates damage to the cable**
- **Detect faults before the final floor installation is completed**



Our Cable Safe monitor is a safety appliance for monitoring underfloor heating systems during installation.

You simply connect the live, neutral and earth wires to the monitor and an alarm will sound if any cable damage is detected.

Repair Kits



We offer repair kits for any accidental damage to our heating mats and cable systems. For post-install

faults that require further investigation please contact our technical team on **01444 247020**.

Product code	Description
MIR-THE-0025	25kg Bag of self-levelling compound
MIR-THE-0001	Levelling compound barriers x 25
MIR-PRI-0001	1 Litre primer for use with self-levelling compound
MIR-PRI-0007	7.5 Litre primer for use with self-levelling compound
ACC-CAB-SAFE	Cable Safe monitor for fault detection
ACC-CAB-TRALI	Heat sensitive Cable Trace device
HCA-111-0006	Repair kit for 3mm cable and mats
HCA-111-0007	Repair kit for 6 or 7mm cable
HCA-111-0003	Replacement floor sensor for use with all Heat Mat thermostats (except the neoStat-e)