



Heating Mats



# Heat Mat 200W/sqm Heating Mats

## High power, ultra-thin undertile heating mats

### 200W/sqm Undertile Heating Mats

A professional fast to fit system designed to provide energy efficient tile warming, and room heating, in all types of room. This award winning underfloor heating mat range reacts significantly faster than less powerful systems, and its ultra thin construction ensures floor levels are only raised by a few millimetres.

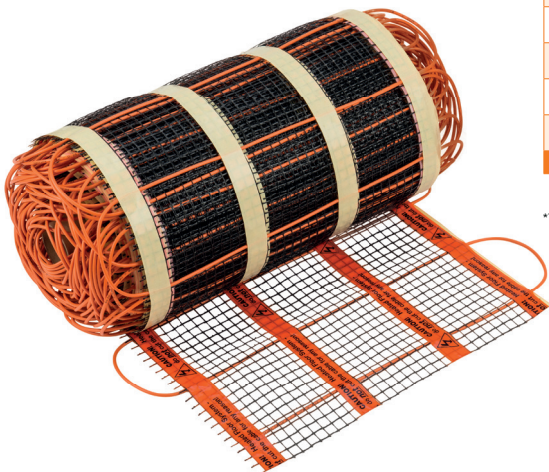
200W heating mats are a remarkably simple to operate heating system, when used in combination with Heat Mat's NGTouch thermostat, providing luxurious warm tile or natural stone floors.

- Designed to provide sole source heating, even in conservatories and other high heat loss rooms
- Dramatically reduced response time compared to 110W and 160W/sqm systems
- When used with an intelligent thermostat timer, 200W systems are more energy efficient and cost less to run than lower powered alternatives

- Technologically advanced wire design delivers minimal build height combined with a robust high powered heating cable
- Particularly suitable for large areas, where loose heating cables could take three times as long to fit

Product code	Size in m <sup>2</sup>	Wattage	Resistance
PKM-200-0060	0.6m <sup>2</sup>	130W	442 Ω
PKM-200-0100	1.0m <sup>2</sup>	208W	277 Ω
PKM-200-0160	1.6m <sup>2</sup>	310W	186 Ω
PKM-200-0200	2.0m <sup>2</sup>	405W	142 Ω
PKM-200-0260	2.6m <sup>2</sup>	512W	113 Ω
PKM-200-0280	2.8m <sup>2</sup>	576W	100 Ω
PKM-200-0350	3.5m <sup>2</sup>	719W	80 Ω
PKM-200-0420	4.2m <sup>2</sup>	854W	67 Ω
PKM-200-0540	5.4m <sup>2</sup>	1083W	53 Ω
PKM-200-0600	6.0m <sup>2</sup>	1196W	48 Ω
PKM-200-0670	6.7m <sup>2</sup>	1353W	43 Ω
PKM-200-0750	7.5m <sup>2</sup>	1504W	38 Ω
PKM-200-0890	8.9m <sup>2</sup>	1769W	33 Ω
PKM-200-0990	9.9m <sup>2</sup>	1973W	29 Ω
PKM-200-1320*	13.2m <sup>2</sup>	2620W	23 Ω

\*This mat is not currently BEAB approved, but it is manufactured to the same standards.



# Heat Mat

## Underfloor Heating

Call 01444 247020  
to find out more or  
visit our website at  
[www.heatmat.co.uk](http://www.heatmat.co.uk)

### 200W Mat Features

- Can provide a complete heating system in most circumstances, even in conservatories
- Compatible with thermal insulation boards for increased efficiency
- Pre-spaced heating cable for speedy installation and uniform heat output
- Simple cut and turn design enables significantly faster installation than with loose cables
- Ultra-thin fluoropolymer insulated cable ensures minimum build height
- Dual conductor cable design means only one connection lead
- A large range of standard sizes which can be mixed and matched to ensure the perfect fit
- Supplied with a Lifetime Warranty
- Independently BEAB and Semko approved for safety
- Part L Compliant to provide an energy efficient heating system
- Made in Denmark

### Compatible with



Thermostats



Thermal insulation boards



I-primer



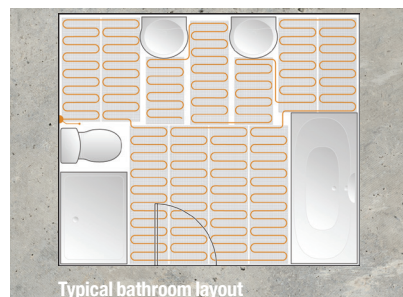
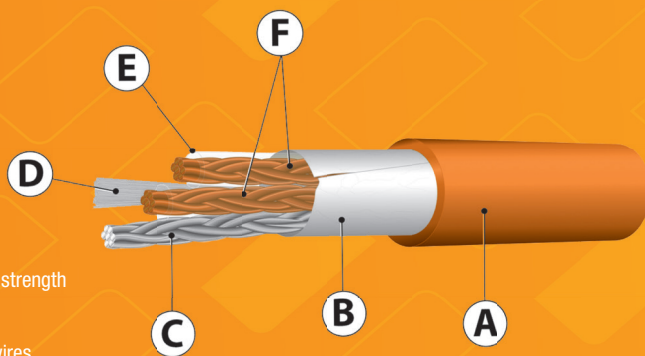
Levelling compound



Additional heating mats

# Only Heat Mat cables include:

- A. Robust PVC (Y) outer insulation
- B. 100% aluminium earth shield for safety
- C. High load earth drain wire
- D. Fibreglass reinforcement cable for tensile strength
- E. Fluoropolymer insulation rated to 200°C
- F. Litzner style twin spiral wound resistance wires



## Selecting the correct sized heating mats

To start with you will need to calculate the free floor area (FFA). To calculate the FFA you should measure the room to find out the total floor area. You should then subtract from this any areas where kitchen or bathroom furniture will be placed, or where furniture without an air gap beneath it will be positioned. Once you have taken off these areas you have your FFA. Our recommendation is to deduct 10% for fitting space in rooms up to 15m<sup>2</sup>, 7% for rooms between 16m<sup>2</sup> and 25m<sup>2</sup>, and 5% fitting space for larger rooms.

## Combining multiple units

200W heating mats are designed to be laid together with other 200W mats to ensure the perfect fit every time. The mats are wired into the thermostat or junction box in parallel, but it is important to ensure that any other mats used in the same room are also rated at 200W/sqm.

## Simple and speedy installation

Heat Mat electric underfloor heating mats are incredibly simple to install, and in large areas can take one third of the time a loose heating cable would take to fit. The mats can be cut and turned to ensure that they fit the room perfectly, and for particularly complicated areas the cable can be stripped from the mat and laid as a loose cable. The mats readily affix to the floor with the four strips of double-sided tape, and the strong fibreglass mesh above the cable ensures it is protected during tiling.

## Sub-floor surfaces and insulation board

For the most energy efficient system and the fastest warm up time we recommend laying 200W heating mats onto Heat Mat thermal insulation board. Mats can also be laid onto pre-primed concrete, tile or stone surfaces or suitably secured ply board skimmed with 2mm of tile adhesive.

## Bespoke heating mats

Bespoke units can be manufactured to order for hotel or Pod projects, with alternative coverages, widths, Wattage outputs and cable thicknesses available.

## Energy efficient solution

200W heating mats are almost 100% efficient at converting electricity into heat and they can easily be powered by locally generated electricity from either photo voltaic or wind power sources. When used with Heat Mat's NGT thermostat they form a Part L compliant system, and they are also suitable for integration into a home/building automation system.

## Approved and guaranteed

Heat Mat's electric underfloor heating mats are independently BEAB and Semko approved, manufactured in Denmark in our BEAB approved factory, and supplied with a Lifetime Warranty. They are also certified by Semko as having a very low EMC radiation, which is a result of their twin conductor design and 100% aluminium earth shield.

## 200W Heating Mat Technical Specification

Supply Voltage	230V +/- 10
Power output	200W/sqm
Output range	130W – 2620W
Maximum load	20W/linear metre
Standard range	0.6m <sup>2</sup> – 13.2m <sup>2</sup>
Mat dimensions	0.5m wide x 1.2m to 26.4m
Coldtail lead	4m double insulated cable
Wire thickness	2.7mm – 3.2mm
Cable flexibility	Minimum radius 18mm
IP Rating	IPX7
Inner insulation	Fluoropolymer (FEP Y7) 200°C
Outer insulation	PVC (Y) 90°C
Earth protection	100% aluminium earth shield
Cable reinforcement	Fibreglass strands
Reinforcement mesh	Fibreglass mesh
Fixing materials	3 rows of double-sided tape
Compliant with	Part L, 17th Edition IEE Wiring Regulations, EN 60335-1:1998, EN60335-2-17:1999, IEC 60730

## Wiring

Heating mats must always be controlled by a suitable electric underfloor heating thermostat with floor temperature limitation. Heat Mat thermostats are rated to 16 Amps, and if a system exceeds this loading a suitably rated contactor should be used. The circuit must be protected by a 30mA RCD and suitably rated fuse or circuit breaker.



## About Heat Mat

With more than 1,400,000m<sup>2</sup> of underfloor heating installed, 22 years' experience of the UK underfloor heating market and a wealth of knowledge on Scandinavian ice and snow melting systems, you can rely on Heat Mat to understand your needs and supply the products to satisfy your requirements.

This is why we are the Professionals' Choice, the number one supplier of electric underfloor heating and ice and snow melting systems to the UK's professional installation market.



## Contact us

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# Heat Mat Underfloor Heating



To see all of our products use your smart phone to scan this code.