



HEATING MATS



# 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)**

## Heat Mat 110W/sqm Heating Mats

Low power consumption, ultra-thin underfloor heating mats

### 110W/sqm Underfloor Heating Mats

A professional fast to fit system designed to provide an energy efficient heating system in very well insulated areas. This system is designed for very low heat loss properties including modern new-build developments which often have a limited power supply available. 110W mats provide a low power consumption heating system which makes them suitable for powering by local renewable energy sources such as PV panels.

- 110W mats offer a versatile underfloor heating system which can be used to supplement other heating in moderately insulated properties, or as sole source in very well insulated situations
- Designed to provide a low power consumption heating system for well insulated areas
- Suitable to provide sole source heating in modern well insulated buildings

- Integrated earth shield (unlike carbon films), allowing safe installation in wet areas including bathrooms
- 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
- Ideal as a wall heating system behind tiles (BEAB approvals do not cover this application)



### 110W mat features

- Low power consumption heating mats suitable for very well insulated properties
- Perfect for situations where a limited power supply is available
- This system minimises the risk of thermal blocks above the heating elements
- 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 cable
- 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
- Hand made in Denmark

### Compatible with



Thermal  
insulation boards



Additional  
heating mats



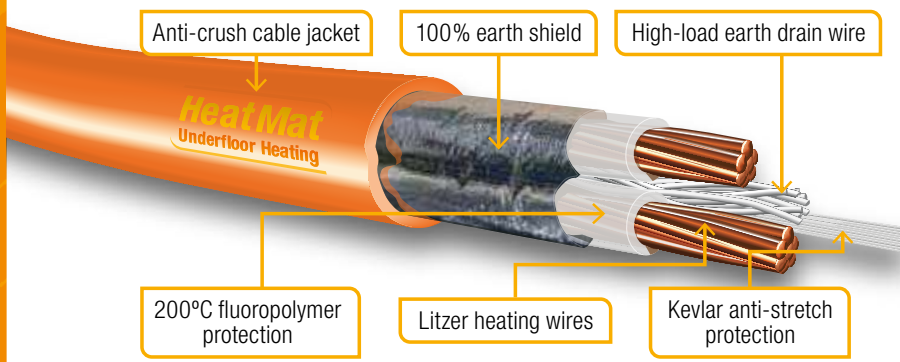
Thermostats



I-primer



Levelling compound



## Our Ultimate Heating Cable



### Litze Wire Technology

Multiple heating elements are spun together to provide superior strength in a very flexible heating wire.



### 200°C Fluoropolymer Protection

Super-high temperature fluoropolymer insulation surrounds the heating elements and provides superior protection.



### Kevlar Anti-stretch Cable

Kevlar strands run through the centre of the heating cable preventing it from damage during installation.



### 100% Earth Shield

An aluminium safety shield wraps the entire heating cable to ensure the system is instantly shut down if damaged.



### Anti-crush Cable Jacket

The high quality PVC cable jacket provides protection against cutting and damage during installation.



### 100% Shielded Coldtail

The entire coldtail is shielded continuing the 100% electrical protection.



### Cut & Turn Mat System

The cut-and-turn system allows mats to be turned back on themselves multiple times during fitting.



### Zero-float Mesh

The mesh terminates at the last row of tape rather than continuing to the ends of the cable, so none floats up when covered in levelling compound.

### 110W Heating Mat

#### Technical Specification

Supply Voltage	230V +/- 10
Power output	110W/sqm
Output range	120W – 1650W
Maximum load	14W/metre
Standard range	1.1m <sup>2</sup> – 15m <sup>2</sup>
Mat dimensions	0.5m wide x 2.2m to 30m
Coldtail lead	2m 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	4 rows of double-sided tape
Compliant with	Part L, 18th Edition IEE Wiring Regulations, BS EN 60335-2-96, IEC 60800

#### 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.

Product code	Size in m <sup>2</sup>	Wattage	Resistance
PKM-110-0110	1.1m <sup>2</sup>	120W	493 Ω
PKM-110-0140	1.4m <sup>2</sup>	150W	374 Ω
PKM-110-0200	2.0m <sup>2</sup>	220W	257 Ω
PKM-110-0260	2.6m <sup>2</sup>	286W	210 Ω
PKM-110-0300	3.0m <sup>2</sup>	320W	181 Ω
PKM-110-0410	4.1m <sup>2</sup>	450W	129 Ω
PKM-110-0490	4.9m <sup>2</sup>	540W	106 Ω
PKM-110-0580	5.8m <sup>2</sup>	660W	88 Ω

Product code	Size in m <sup>2</sup>	Wattage	Resistance
PKM-110-0700	7.0m <sup>2</sup>	770W	75 Ω
PKM-110-0830	8.3m <sup>2</sup>	930W	62 Ω
PKM-110-0900	9.0m <sup>2</sup>	1020W	56 Ω
PKM-110-1020	10.2m <sup>2</sup>	1090W	53 Ω
PKM-110-1150	11.5m <sup>2</sup>	1250W	46 Ω
PKM-110-1300	13.0m <sup>2</sup>	1430W	40 Ω
PKM-110-1500	15.0m <sup>2</sup>	1650W	33 Ω

## About Heat Mat

Heat Mat is part of the Heatcom group of companies, one of Europe's largest underfloor heating manufacturers. With Heat Mat's 25 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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