StickyMat System

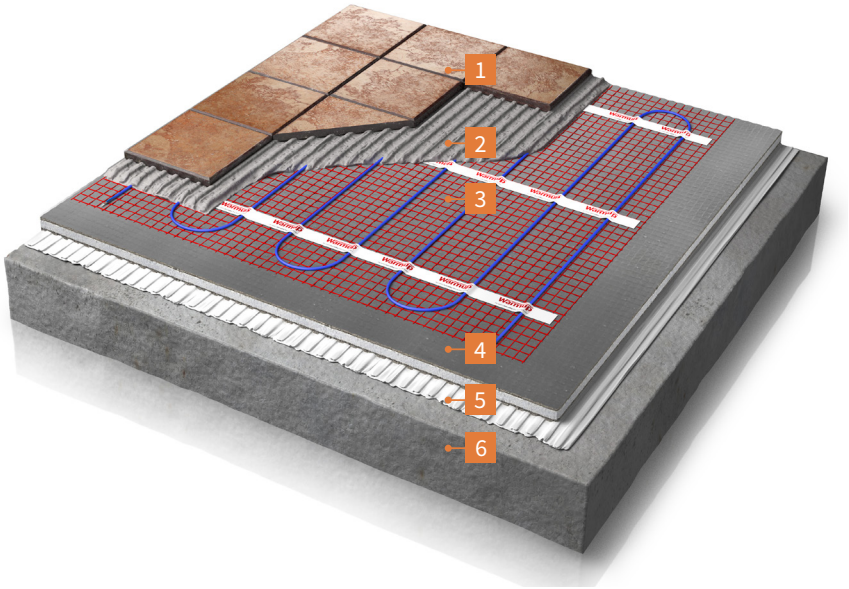
Overview

The Warmup StickyMat System is designed for use within the adhesive layer under tiles or within a levelling compound under other floor finishes. The fixed spacing and self-adhesive mat makes installation of regularly shaped rooms quick and easy whilst ensuring precision is maintained. The pressure sensitive adhesive securely binds the mats to the floor, keeping them flat and ensuring the application of tile adhesive is snag free whilst allowing the mats to be easily repositioned as needed.

The ultra-thin, 2mm multistrand, dual core heating cable, is double insulated with an advanced fluoropolymer making it exceptionally tough and easy to tile over.

For floors using a vinyl, carpet, timber or other UFH compatible floor finishes including tiles the system can be covered with a levelling compound to provide a flat and level floor surface. StickyMats are available in both 150W/m^2 and 200W/m^2 variants making them ideal for use as the primary heat source within modern homes and most older properties.

FLOOR CONSTRUCTION
1 Floor finish
2 Tile adhesive or levelling compound
3 Warmup StickyMat
4 Warmup Coated Insulation Board
5 Flexible Tile Adhesive
6 Subfloor



Electric
Heating System

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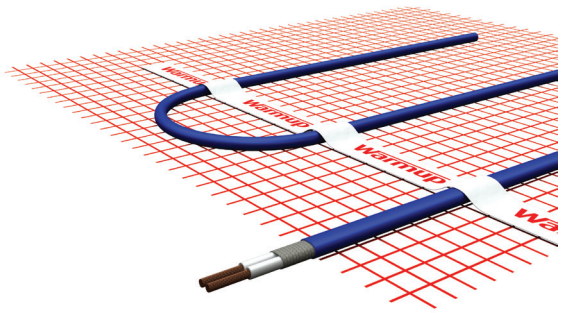
Warmup®
The world's **best-selling** floor heating brand™

Technical Data

TECHNICAL DATA - StickyMat	
OPERATING VOLTAGE	220 - 240v: 50Hz
IP RATING	IPX7
WIDTH	500mm
MAT THICKNESS	3mm
CABLE THICKNESS	1.8mm
OUTPUT RATING	150W/m^2 200W/m^2
INNER INSULATION	ETFE
OUTER INSULATION	ETFE
MIN. INSTALLATION TEMP	5°C
CONNECTION	3m LONG “COLDTAIL” CONNECTION



Features

- StickyMats are available in both 150W/m^2 and 200W/m^2 variants
- Ultra-thin, 1.8mm cable multistrand, dual core heating cable is double insulated with an advanced fluoropolymer making it exceptionally tough and easy to tile over
- Ideal for regular shaped rooms, where the 0.5m wide mats can be rolled out across the floor in parallel runs.
- Pressure sensitive adhesive securely binds the mats to the floor keeping them flat for fast and secure installation
- BEAB Approved and CE marked meeting the highest safety standards for ultimate piece of mind
- Lifetime Warranty & SafetyNet Installation Guarantee

Technical Data

PRODUCT CODE	AREA TO BE HEATED (m^2)	SPM 150W/m^2			
		POWER (W)	LOAD (A)	RESISTANCE (Ω)	RESISTANCE BANDS (Ω)
SPM 1	1	150	0.65	353	335.4 - 370.7
SPM 1.5	1.5	225	0.98	235	223.3 - 246.8
SPM 2	2	300	1.30	176	167.2 - 184.8
SPM2.5	2.5	375	1.63	141	134.0 - 148.1
SPM 3	3	450	1.96	118	112.1 - 123.9
SPM 3.5	3.5	525	2.28	101	96.0 - 106.1
SPM 4	4	600	2.61	88	83.6 - 92.4
SPM 4.5	4.5	675	2.93	78	74.1 - 81.9
SPM 5	5	750	3.26	71	67.5 - 74.6
SPM 6	6	900	3.91	59	56.1 - 62.0
SPM 7	7	1050	4.57	50	47.5 - 52.5
SPM 8	8	1200	5.22	44	41.8 - 46.2
SPM 9	9	1350	5.87	39	37.1 - 41.0
SPM 10	10	1500	6.52	35	33.3 - 36.8
SPM 11	11	1650	7.17	32	30.4 - 33.6
SPM 12	12	1800	7.83	29	27.6 - 30.5
SPM 15	15	2250	9.78	24	22.8 - 25.2

PRODUCT CODE	AREA TO BE HEATED (m^2)	2SPM 200W/m^2			
		POWER (W)	LOAD (A)	RESISTANCE (Ω)	RESISTANCE BANDS (Ω)
2SPM 0.5	0.5	100	0.44	529	502.6 - 555.5
2SPM 1	1	200	0.87	265	251.8 - 278.3
2SPM 1.5	1.5	300	1.30	176	167.2 - 184.8
2SPM 2	2	400	1.74	132	125.4 - 138.6
2SPM 2.5	2.5	500	2.17	106	100.7 - 111.3
2SPM 3	3	600	2.61	88	83.6 - 92.4
2SPM 3.5	3.5	700	3.04	76	72.2 - 79.8
2SPM 4	4	800	3.48	66	62.7 - 69.3
2SPM 4.5	4.5	900	3.91	59	56.1 - 62.0
2SPM 5	5	1000	4.35	53	50.4 - 55.7
2SPM 6	6	1200	5.22	44	41.8 - 46.2
2SPM 7	7	1400	6.09	38	36.1 - 39.9
2SPM 8	8	1600	6.96	33	31.4 - 34.7
2SPM 9	9	1800	7.83	29	27.6 - 30.5
2SPM 10	10	2000	8.70	26	24.7 - 27.3
2SPM 15	15	3000	13.04	18	16.7 - 18.5

NOTE: To cover larger areas, several kits should be used together.

WARMUP COMPONENTS

Insulation Boards

Warmup® Insulation Boards are a water resistant, insulated tile backer board made of extruded polystyrene, faced on both sides with a fibreglass mesh embedded into a thin cement polymer mortar.

They have high thermal insulation properties for energy efficiency and an added benefit of sound absorption.

INSBOARD - TECHNICAL SPECIFICATIONS					
MODEL	THICKNESS (mm)	WIDTH (mm)	LENGTH (mm)	WEIGHT (kg)	R VALUE (m^2.K/W)
INSBOARD6MM	6	600	1250	1.95	0.16
INSBOARD(PK1)	10	600	1250	2.22	0.28
INSBOARD20MM	20	600	1250	2.48	0.58
INSBOARD50MM	50	600	1250	3.26	1.50

Warmup Insulation Boards have zero Ozone Depletion Potential (ODP) and a Global Warming Potential (GWP) of less than 5

Thermostat

4iE® SMART WIFI THERMOSTAT

For Central Heating and Underfloor Heating Systems

Connected to the internet by WiFi, it can be controlled from a smart phone, tablet or computer as well as its own touchscreen interface. It learns how homeowners use their heating and the unique way each zone reacts. It uses this knowledge to suggest ways to save energy, such as what temperature should be set when the area is not in use and when the heating can be turned off earlier with no noticeable impact on comfort.

Personalise your 4iE with uploadable photo backgrounds and changeable, textured overlays.

SmartGeo™
Always at the right temperature automatically, and up to 25% lower energy usage. Just like magic.

EasySwitch™
Always on the best tariff, automatically. Saving on average £210.

Easy to use
Simple and secure set up using WiFi, with 24/7 technical support.

Cement Coated Insulation Boards

Overview

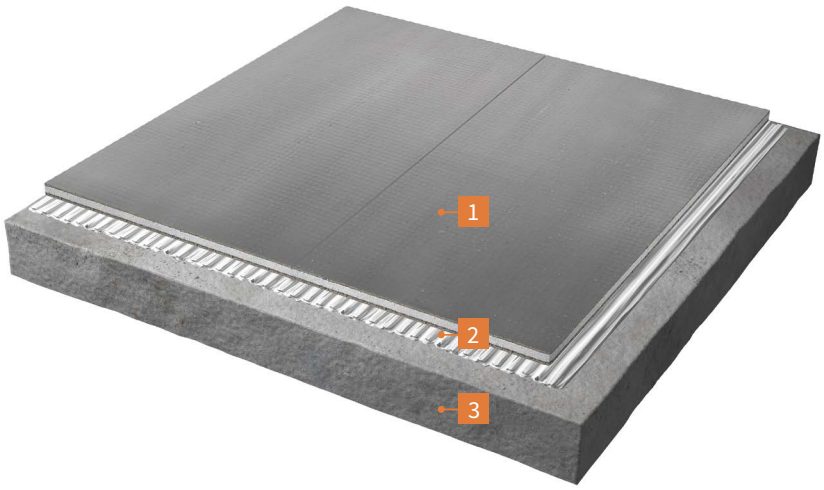
Warmup Insulation Boards are manufactured from water resistant extruded polystyrene, finished on both faces with a thin layer of fibreglass reinforced cement. They are available in a range of thicknesses, from 6mm to 50mm, to individual project requirements.

They are ideal for tile backing applications on both walls and floors, with the internal layer of insulation capable of supporting 30 tonnes per square metre. The 0.5mm thick cement coating provides an excellent surface for tile adhesive, plaster and smoothing/levelling compounds, with no priming required.

The low thermal conductivity of the insulation enhances the efficiency of underfloor heating systems, even when used over pre insulated sub floors. This is because they reduce the thermal mass of the floor, significantly reducing the amount of heat absorbed by the subfloor. This allows the underfloor heating system to warm the floor and the room up faster and ensures the floor cools down faster after use. By reducing the amount of time the room takes to warm up and cool down, the room can spend longer at its cooler set back temperature, reducing its heat loss.

The waterproof insulation panels are suitable for bathrooms and showers as well as dry rooms, allowing the same construction to be used throughout

FLOOR CONSTRUCTION
1 Warmup Coated Insulation Board
2 Flexible Tile Adhesive
3 Subfloor



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Technical Data

TECHNICAL DATA - Insulation Boards						
PRODUCT CODE	**INSBOARD6**	**INSBOARD(PK1)**	**INSBOARD20**	**INSBOARD30**	**INSBOARD40**	**INSBOARD50**
THICKNESS - mm	**6 mm**	**10 mm**	**20 mm**	**30 mm**	**40 mm**	**50 mm**
WIDTH - mm	600					
LENGTH - mm	1250					
AREA - m^2	0.75					
WEIGHT - kg (kg/m^2)	2.2 (2.9)	2.3 (3.1)	2.5 (3.4)	2.8 (3.7)	3.0 (4.0)	3.2 (4.3)
THERMAL CONDUCTIVITY - W/mK	0.033					
THERMAL RESISTANCE - m^2K/W	0.12	0.24	0.55	0.85	1.15	1.45
COMPRESSIVE STRENGTH - kPa	300					
BOND STRENGTH - kPa	220					
SHEAR BOND STRENGTH - kPa	325					
MAXIMUM TILE WEIGHT (for Walls) - kg/m^2	60					
THERMAL EXPANSION COEFFICIENT (FOAM CORE ONLY) - mm/m per °C	≤0.07					
WATER ABSORPTION (2 DAY IMMERSION)(FOAM CORE ONLY) - % by volume	≤1.5					
FIRE RATING - Euroclass	E					
OZONE DEPLETION POTENTIAL - ODP	0					
GLOBAL WARMING POTENTIAL - GWP	<5					

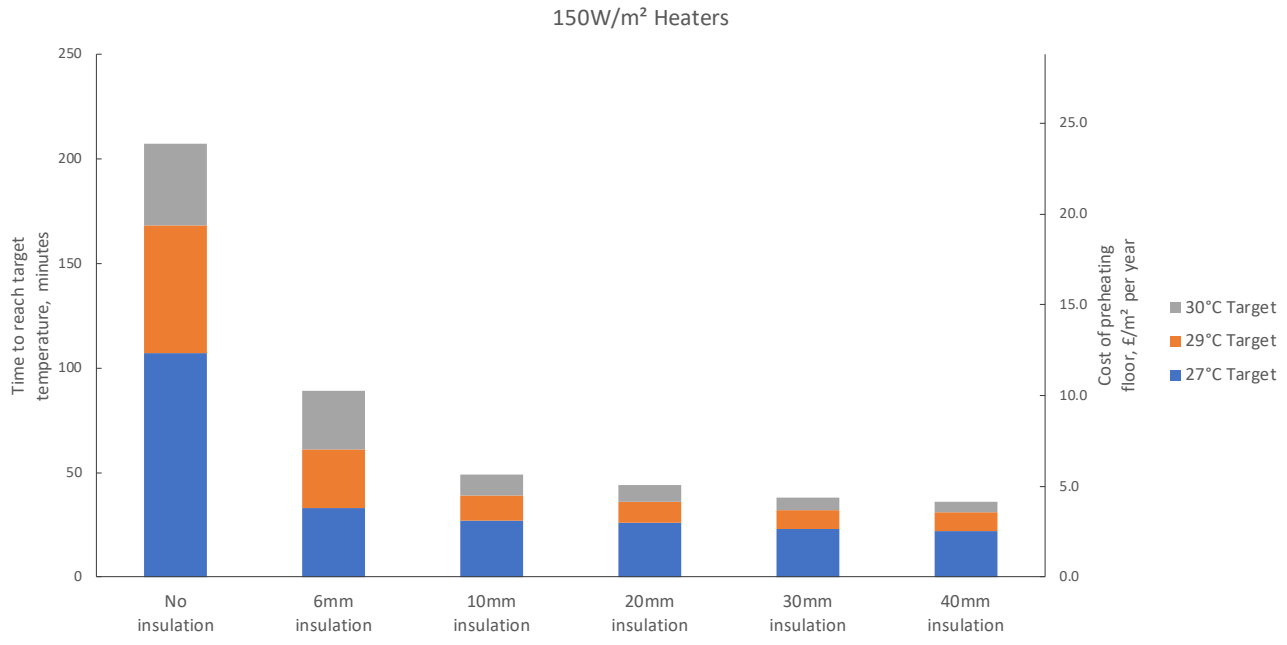
Features

- Easy to cut and shape around fixtures with a knife or saw
- Comes in a range of thicknesses to suit floor and wall applications
- Can be fixed to solid or stud walls
- Excellent as internal wall insulation especially when compared to standard cement building boards and plaster boards
- Reduces heat loss and improves the underfloor heating systems response time
- CE marked for ultimate peace of mind
- Can be used to easily create a waterproof floors and walls in wet rooms, just by adding silicone sealant to the edges of the board before butting them tightly together
- High resistance to rot due to very low absorption rate

INSULATION BOARD EFFECT ON PREHEATING TIMES

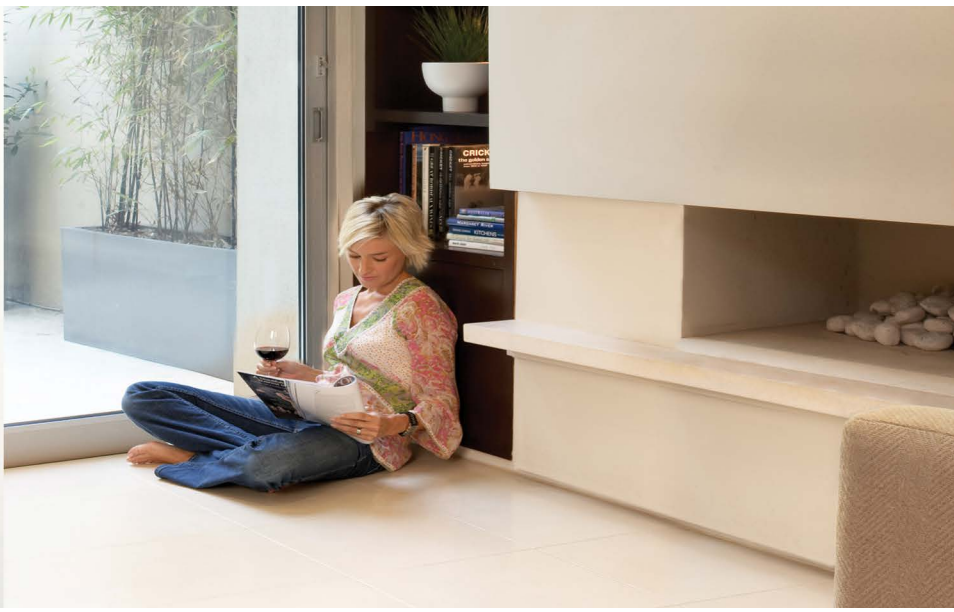
Warmup has conducted extensive testing of its electric underfloor heating systems when used in combination with its range of Cement Coated Insulation Boards. The tests consisted of a 75mm screed subfloor, heated with a 150W/m2 under tile heating system. The range of Warmup Cement Coated Insulation Boards were each installed between the sub floor and the heated tiles with a reference construction that had none.

The chart below shows the response times and the resulting costs of preheating the floors from 18°C to three different temperature settings. Even just a 6mm board makes a significant improvement to system performance and provides savings that will quickly recover their initial purchase price.



*Cost assumptions: 12.66p/kWh - system on twice a day, for 6 months (182 days) of the year.

3iE™ Energy-Monitor Thermostat



Overview

The world's first fully interactive, touch technology, energy-monitor thermostat features an easy-to-use interface, eliminating complicated instruction manuals.
The display shows recorded energy consumption usage, so that users know the exact underfloor heating costs. Up to 10 programmable periods can be set each day to maximise energy efficiency.

Innovative

First thermostat with a 2.4" full colour screen and integrated touch technology – patents pending.

Beautifully crafted fashion colour fascia with chrome edging are perfectly in tune with the modern home environment.

Interactive

Clear graphical display makes any adjustment quick and easy.

Choose the display style that suits you best – wide choice of screen themes.

Intelligent

Proportional Adaptive Function ensures the room does not over-heat, reducing wasted energy whilst also protecting the components inside. The Early Start algorithm learns how long it takes to warm the room and activates the heating so it's up to temperature at the right time.

Installation

The 3iE™ Energy-Monitor Thermostat should be installed by a certified electrician only, using Warmup's installation instructions.

Energy Efficient

Unrivalled accurate floor temperature control means no wasted energy - reducing the costs associated with over-heating.

Graphical energy monitor shows exactly how much energy is being used and when.

AEM™ prompts you to choose the best and most efficient temperature for each room, maximising energy efficiency.

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Features

- Active Energy Management™ prompts user to save up to 10% on utility bills
- Easy-to-use interface eliminates complicated manuals
- Unrivalled accurate floor temperature control of +/- 0.5°C, significantly reduces energy wastage
- 10 programmable periods per day for efficient energy usage
- Stylish range of colours to suit any decor
- BEAB Approved and CE marked meeting the highest safety standards for ultimate piece of mind
- 3yr Warranty with option to upgrade to Lifetime Warranty

Technical Specifications

3iE - TECHNICAL SPECIFICATIONS	
INPUT VOLTAGE	230V +/- 15% at 50Hz
MAX LOAD	16A (3680W)
DIMENSIONS	(H/W/D): 90 x 113 x 19mm (from wall)
SENSORS	AIR & FLOOR (AMBIENT)
SENSOR TYPE	NTC10K 3m LONG (CAN BE EXTENDED TO 50m)
IP RATING	IP20/(IP 32 WITH OPTIONAL GASKET)
INSTALLATION DEPTH	35mm BACK BOX
DISPLAY SIZE	2.4” FULL COLOUR
COMPATIBILITY	IDEAL FOR ELECTRIC & HYDRONIC UNDERFLOOR HEATING
Er-P CLASS	IV