



# HEATCOM

Floor Heating · **Comfort for Generations**

## Electric underfloor heating

- Simple to install
- Cheap to install
- Simple to regulate
- Safe to use
- Maintenance free



**CERTIFIED UNDERFLOOR HEATING WITH 15 YEARS' GUARANTEE**

# WHY CHOOSE HEATCOM?



Heatcom is a leading Danish manufacturer of under-floor heating. We have more than 20 years' experience from production of electric underfloor heating, and our products meet the highest quality requirements.

Quality tested by Semko, VDE, and BEAB, Heatcom heating cables satisfy all requirements stipulated in the EN 60335-2-96 standard.

Heatcom therefore provides a 15-year warranty with its heating cables.

## Correct choice of underfloor heating

Heatcom heating cables for all types of floors. Heating cables can be used under tiles, slate, stone, laminate, parquet, or embedded in the floor.

Heating cables are probably the most effective method of heating a room. The heat is emitted over the entire floor area, considerably improving the indoor climate. The floor temperature can be set 2-3°C lower than the desired room temperature. This can generate energy savings of 10-15%. Use of an efficient thermostat can reduce the energy consumption even further, i.e. up to 25%.

### Power output (watt/m<sup>2</sup>) under tiles, slate, and similar

It is important to lay the cables in such a way that they can respond quickly to temperature changes. Depending on what the room is to be used for and how the floor is insulated, 100-150 W/sq.m will be sufficient.



# HEATCOM UNDERFLOOR HEATING FOR HOUSE AND HOME

**Save up to 25% energy with low profile floor heating.**



The Heatcom cable mat is suitable for rectangular rooms. Simple and fast to lay, it only raises the floor height by 5mm. The mat is placed in flexible primer or tile adhesive, and the cable must be completely covered.

To avoid cracks and damage, the surface must be stable.

Selection of Watt/sq.m depends on how well the floor is insulated. Laying Heatcom cable mats is simple.

The cable mat is mounted on a dust-free surface using strong double-sided tape. The calculated heating cable area must be equivalent to about 80% of the room's total area. In combination with the Heatcom programmable thermostat, this is an effective way to save energy.

## 3mm cable mat

### 3mm cable mat 100W/m<sup>2</sup>, width 50cm

| Item no. | Description  | Power watt | Length m | Sq.m |
|----------|--|------------|----------|------|
| 32100150 | Heating Mat 100 W/m <sup>2</sup> - 1,1 m <sup>2</sup> (0,5 x 2,1 m)    | 110 W      | 2,1      | 1    |
| 32101550 | Heating Mat 100 W/m <sup>2</sup> - 1,4 m <sup>2</sup> (0,5 x 3,0 m)    | 150 W      | 3        | 1,4  |
| 32100250 | Heating Mat 100 W/m <sup>2</sup> - 2,0 m <sup>2</sup> (0,5 x 4,0 m)    | 200 W      | 4        | 2    |
| 32100350 | Heating Mat 100 W/m <sup>2</sup> - 3,0 m <sup>2</sup> (0,5 x 6,20 m)   | 320 W      | 6,2      | 3,0  |
| 32100450 | Heating Mat 100 W/m <sup>2</sup> - 4,1 m <sup>2</sup> (0,5 x 8,20 m)   | 410 W      | 8,2      | 4,1  |
| 32100550 | Heating Mat 100 W/m <sup>2</sup> - 4,9 m <sup>2</sup> (0,5 x 9,80 m)   | 490 W      | 9,8      | 4,9  |
| 32100650 | Heating Mat 100 W/m <sup>2</sup> - 5,8 m <sup>2</sup> (0,5 x 11,60 m)  | 580 W      | 11,6     | 5,8  |
| 32100700 | Heating Mat 100 W/m <sup>2</sup> - 7,0 m <sup>2</sup> (0,5 x 14,0 m)   | 700 W      | 14       | 7    |
| 32100850 | Heating Mat 100 W/m <sup>2</sup> - 8,3 m <sup>2</sup> (0,5 x 16,65 m)  | 830 W      | 16,65    | 8,3  |
| 32100900 | Heating Mat 100 W/m <sup>2</sup> - 9,0 m <sup>2</sup> (0,5 x 18,0 m)   | 940 W      | 18       | 9    |
| 32101050 | Heating Mat 100 W/m <sup>2</sup> - 10,2 m <sup>2</sup> (0,5 x 20,60 m) | 1020 W     | 20,4     | 10,2 |

### 3mm cable mat 150W/m<sup>2</sup>, width 50cm

| Item no  | Description  | Power watt | Length m | Sq.m |
|----------|--|------------|----------|------|
| 32150150 | Heating Mat 150 W/m <sup>2</sup> - 1,1 m <sup>2</sup> (0,5 x 2,20 m)   | 165 W      | 2,2      | 1,1  |
| 32151550 | Heating Mat 150 W/m <sup>2</sup> - 1,5 m <sup>2</sup> (0,5 x 3,0 m)    | 225 W      | 3        | 1,5  |
| 32150250 | Heating Mat 150 W/m <sup>2</sup> - 2,0 m <sup>2</sup> (0,5 x 4,05 m)   | 300 W      | 4,05     | 2    |
| 32150230 | Heating Mat 150 W/m <sup>2</sup> - 2,3 m <sup>2</sup> (0,5 x 4,60 m)   | 350 W      | 4,6      | 2,3  |
| 32150280 | Heating Mat 150 W/m <sup>2</sup> - 2,8 m <sup>2</sup> (0,5 x 5,50 m)   | 420 W      | 5,5      | 2,8  |
| 32150350 | Heating Mat 150 W/m <sup>2</sup> - 3,1 m <sup>2</sup> (0,5 x 6,20 m)   | 465 W      | 6,2      | 3,1  |
| 32150450 | Heating Mat 150 W/m <sup>2</sup> - 3,7 m <sup>2</sup> (0,5 x 7,40 m)   | 555 W      | 7,4      | 3,7  |
| 32150470 | Heating Mat 150 W/m <sup>2</sup> - 4,4 m <sup>2</sup> (0,5 x 8,80 m)   | 660 W      | 8,8      | 4,4  |
| 32150550 | Heating Mat 150 W/m <sup>2</sup> - 5,2 m <sup>2</sup> (0,5 x 10,20 m)  | 785 W      | 10,2     | 5,2  |
| 32150650 | Heating Mat 150 W/m <sup>2</sup> - 6,2 m <sup>2</sup> (0,5 x 12,40 m)  | 955 W      | 12,4     | 6,2  |
| 32150680 | Heating Mat 150 W/m <sup>2</sup> - 6,8 m <sup>2</sup> (0,5 x 13,60 m)  | 1020 W     | 13,6     | 6,8  |
| 32150850 | Heating Mat 150 W/m <sup>2</sup> - 7,7 m <sup>2</sup> (0,5 x 15,35 m)  | 1070 W     | 15,35    | 7,7  |
| 32150890 | Heating Mat 150 W/m <sup>2</sup> - 8,7 m <sup>2</sup> (0,5 x 17,40 m)  | 1320 W     | 17,4     | 8,7  |
| 32151050 | Heating Mat 150 W/m <sup>2</sup> - 10,4 m <sup>2</sup> (0,5 x 20,80 m) | 1560 W     | 20,8     | 10,4 |

## Heatcom 3 mm heating cable on drum. 12 W/running metre

### Supplied with a “two-in-one” programmable thermostat and installation tape.

Heatcom heating cable on drum is recommended for areas that are not rectangular and in which permanent fixtures make it difficult to lay a mat. Heatcom heating cable on drum is supplied as a set that includes double-sided installation tape and a programmable thermostat. The cable is affixed to the surface using the strong double-sided tape, and only raises the floor by 5 mm. Heatcom low profile cable is laid in flexible primer or directly in tile adhesive. It must be completely covered by the adhesive or primer. Both products must be intended for use with floor heating.

The power output per sq.m can be adjusted by varying the distance (cc distance) between each cable length. Please see the table below.



Heatcom heating cable is supplied with a unique “two-in-one” programmable thermostat. The thermostat has both manual and programmable options, and you can decide which to use after installation. By combining the Heatcom low-profile heating cable with a Heatcom programmable thermostat you can save up to 25% energy. The Heatcom programmable thermostat meets Norwegian requirements for installation in bathrooms and wet rooms.

### Heatcom 3mm heating cable on drum 12W/running metre. with HC 11 TP digital programmable thermostat

| Item no. | Description     | Length m | Watt. total | 100 watt/m <sup>2</sup> = cc 12 cm | 150watt/m <sup>2</sup> =cc 8 cm | Ohm |
|----------|-----------------|----------|-------------|------------------------------------|---------------------------------|-----|
| 38160130 | Kit 130 HC11TP  | 11,3     | 130         | 1,3m <sup>2</sup>                  | 0,9m <sup>2</sup>               | 407 |
| 38160200 | Kit 200 HC11TP  | 16,5     | 200         | 2,0m <sup>2</sup>                  | 1,3m <sup>2</sup>               | 264 |
| 38160290 | Kit 290 HC11TP  | 23,5     | 290         | 2,9m <sup>2</sup>                  | 1,9m <sup>2</sup>               | 183 |
| 38160420 | Kit 420 HC11TP  | 36,0     | 420         | 4,2m <sup>2</sup>                  | 2,9m <sup>2</sup>               | 126 |
| 38160490 | Kit 490 HC11TP  | 39,0     | 490         | 4,9m <sup>2</sup>                  | 3,1m <sup>2</sup>               | 109 |
| 38160580 | Kit 580 HC11TP  | 47,0     | 580         | 5,8m <sup>2</sup>                  | 3,8m <sup>2</sup>               | 92  |
| 38160670 | Kit 670 HC11TP  | 57,0     | 670         | 6,7m <sup>2</sup>                  | 4,6m <sup>2</sup>               | 80  |
| 38160800 | Kit 800 HC11TP  | 68,0     | 800         | 8,0m <sup>2</sup>                  | 5,4m <sup>2</sup>               | 67  |
| 38160960 | Kit 960 HC11TP  | 79,0     | 960         | 9,6m <sup>2</sup>                  | 6,3m <sup>2</sup>               | 55  |
| 38161050 | Kit 1050 HC11TP | 87,0     | 1050        | 10,5m <sup>2</sup>                 | 7,0m <sup>2</sup>               | 50  |
| 38161190 | Kit 1190 HC11TP | 99,0     | 1190        | 11,9m <sup>2</sup>                 | 7,9m <sup>2</sup>               | 44  |
| 38161340 | Kit 1340 HC11TP | 112,0    | 1340        | 13,4m <sup>2</sup>                 | 9,0m <sup>2</sup>               | 40  |
| 38161600 | Kit 1600 HC11TP | 133,0    | 1600        | 16m <sup>2</sup>                   | 10,6m <sup>2</sup>              | 33  |
| 38161740 | Kit 1740 HC11TP | 145,0    | 1740        | 17,4m <sup>2</sup>                 | 11,6m <sup>2</sup>              | 31  |
| 38162000 | Kit 2000 HC11TP | 166,0    | 2000        | 20,0m <sup>2</sup>                 | 13,3m <sup>2</sup>              | 27  |
| 38162140 | Kit 2140 HC11TP | 177,0    | 2140        | 21,4m <sup>2</sup>                 | 14,1m <sup>2</sup>              | 25  |

NB! Square area minus 20% gives the correct square area of heating cable.

## Heatcom Strong 18W/running metre. 5.5mm heating cable

**Supplied on a drum. thermostat not included.**

**Heatcom Strong 18 cable. 18W/running meter is intended for laying in screed and is a reinforced class C cable with a specially robust PVC outer jacket.**



Heatcom Strong 18 is a particularly robust heating cable that can be installed on reinforcing steel or nets. If the cable is to be laid in so-called ground-moist concrete. Particular care must be taken to avoid formation of air pockets around the cable. and that the concrete has adequate thermal conductivity. Please refer to the regulations.

Heatcom Strong 18 can also be installed on a firm surface. and in this case HTCU fixing tape is used.

The number of watts per sq.m is determined by the spacing between the cables.

Heatcom Strong 18 is also suitable for concreted outdoor surfaces and can be combined with the Heatcom programmable thermostat HC11TP.

### Heatcom 5.5mm reinforced heating cable 18W/running metre for laying in screed

| Item no. | Description                           | Watt   | Length  | Ohm |
|----------|---------------------------------------|--------|---------|-----|
| 51210110 | Heating Cable 5,5 mm STRONG - 11,0 m  | 200 W  | 11,0 m  | 262 |
| 51210165 | Heating Cable 5,5 mm STRONG - 16,5 m  | 300 W  | 16,5 m  | 174 |
| 51210220 | Heating Cable 5,5 mm STRONG - 22,0 m  | 400 W  | 22,0 m  | 131 |
| 51210275 | Heating Cable 5,5 mm STRONG - 27,5 m  | 500 W  | 27,5 m  | 105 |
| 51210330 | Heating Cable 5,5 mm STRONG - 33,0 m  | 600 W  | 33,0 m  | 87  |
| 51210390 | Heating Cable 5,5 mm STRONG - 39,0 m  | 700 W  | 39,0 m  | 76  |
| 51210460 | Heating Cable 5,5 mm STRONG - 46,0 m  | 850 W  | 46,0 m  | 62  |
| 51210550 | Heating Cable 5,5 mm STRONG - 55,0 m  | 1000 W | 55,0 m  | 52  |
| 51210690 | Heating Cable 5,5 mm STRONG - 69,0 m  | 1250 W | 69,0 m  | 42  |
| 51210760 | Heating Cable 5,5 mm STRONG - 76,0 m  | 1375 W | 76,0 m  | 38  |
| 51210940 | Heating Cable 5,5 mm STRONG - 94,0 m  | 1700 W | 94,0 m  | 31  |
| 51211160 | Heating Cable 5,5 mm STRONG - 116,0 m | 2100 W | 116,0 m | 25  |
| 51211440 | Heating Cable 5,5 mm STRONG - 144,0 m | 2600 W | 144,0 m | 20  |
| 51211830 | Heating Cable 5,5 mm STRONG - 183,0 m | 3300 W | 183,0 m | 16  |
| 34000025 | HTCU Fixing tape 25 m                 | -      |         |     |

## Heatcom AluMat floor heating for laminate and parquet 80 Watt/m<sup>2</sup>

**Heatcom Alumat. glass-fibre reinforced aluminium foil with earthed heating cable.**  
**Approved by Semko.**



AluMat gives a floor rise of only 2-3mm and can be laid directly below laminate or parquet.  
 We recommend laying AluMat on a 3mm Heatcom reflector plate. With a power output of 80 watt/sq.m. it can be used as the primary heating source in the room.  
 In older houses, heat loss can be around 50-55 Watt/sq.m. A power output lower than 70-80 W/m<sup>2</sup> may result in inadequate heating, and supplementary heating may be necessary.  
 To ensure good heat radiation without damage to the wood floor, parquet manufacturers' recommend that the floor temperature should not exceed +27°C. A higher temperature could damage the parquet.  
 It is therefore a requirement that underfloor heating for a wood floor is connected to a thermostat with maximum temperature limited to 27°C.  
 The Heatcom thermostat type HC11TP has an integral temperature restrictor of +27°C and can therefore be recommended for use with underfloor heating for wooden floors.



### AluMat for laminate and parquet - 80 W/m<sup>2</sup>

| Item no. | Description                                 | Watt  |
|----------|---|-------|
| 40840010 | AluMat - 0,5 x 2,0 m - 1,0 m <sup>2</sup>   | 80 W  |
| 40840015 | AluMat - 0,5 x 3,0 m - 1,5 m <sup>2</sup>   | 120 W |
| 40840020 | AluMat - 0,5 x 4,0 m - 2,0 m <sup>2</sup>   | 160 W |
| 40840025 | AluMat - 0,5 x 5,0 m - 2,5 m <sup>2</sup>   | 200 W |
| 40840030 | AluMat - 0,5 x 6,0 m - 3,0 m <sup>2</sup>   | 240 W |
| 40840035 | AluMat - 0,5 x 7,0 m - 3,5 m <sup>2</sup>   | 280 W |
| 40840040 | AluMat - 0,5 x 8,0 m - 4,0 m <sup>2</sup>   | 320 W |
| 40840045 | AluMat - 0,5 x 9,0 m - 4,5 m <sup>2</sup>   | 360 W |
| 40840050 | AluMat - 0,5 x 10,0 m - 5,0 m <sup>2</sup>  | 400 W |
| 40840060 | AluMat - 0,5 x 12,0 m - 6,0 m <sup>2</sup>  | 480 W |
| 40840070 | AluMat - 0,5 x 14,0 m - 7,0 m <sup>2</sup>  | 560 W |
| 40840080 | AluMat - 0,5 x 16,0 m - 8,0 m <sup>2</sup>  | 640 W |
| 40840090 | AluMat - 0,5 x 18,0 m - 9,0 m <sup>2</sup>  | 720 W |
| 40840100 | AluMat - 0,5 x 20,0 m - 10,0 m <sup>2</sup> | 800 W |

Thermal blocking may occur under wooden floors i.e. the heat collects under thick carpets or furniture that rests directly on the surface.

This is unfortunate and could damage the floor. A thermostat cannot prevent thermal blocking.

## Heatcom thermostats with double pole breaker and IP 21

**Approved for installation in bathrooms and wet rooms.**



*"two-in-one"*

HC 11 TP  
Programmable



HC 11 TPM  
Manual/digital



HC 41  
Manual with cover

### Thermostats for underfloor heating

| Item no. | Description. Supplied as standard with Elko frame. Options Eljo. BJ.                     | Watt   |
|----------|--|--------|
| 53100018 | Heat control HC 11 TP Programmable with floor and room sensor. double pole IP21 - 16 A   | 3600 W |
| 53100019 | Heat control HC 11 TPM Digital manual on/off with floor sensor. double pole IP 21 - 16 A | 3600 W |
| 53300600 | DIN mounted thermostat for mounting in a fuse box. ETV-1991                              | 3600 W |
| 53400041 | HC 41 manual thermostat with cover   | 3600 W |

Heatcom thermostats have been specifically developed for the Nordic market. HC11TP and HC11TPM satisfy all requirements for installation in bathrooms and wet rooms. The thermostats are therefore equipped with a double pole breaker and protection against condensation equivalent to IP 21. Refer to the requirements in the regulations.

## Heatcom reflector plates.

**Increases the level of insulation in the floor and reduces the noise from footsteps.**

Use of Heatcom 3 mm reflector plates increases the level of insulation and considerably reduces the noise from footsteps.

Heatcom reflector plates have good compressive strength, and are suitable as a component of the under-tile surface. The cables must be covered completely by flexible primer or adhesive.

When using reflector plates, it is recommended that the heating cables are placed in a self-supporting reinforced screed or flexible primer with a thickness of at least 25-30mm.

The underlying surface must also be stable to prevent cracks occurring in joints or tiles.

Reflector plates are supplied either as whole plates 0.5 x 1.2 m, or a folded "harmonica" pack 1.22 x 8.33m = 10m<sup>2</sup>



### Reflector plates

| Item no. | Description  |
|----------|--|
| 40101030 | Reflector plate 3 mm 500 x 1200 – pack 6 m <sup>2</sup>                          |
| 40101060 | Reflector plate 6 mm 500 x 1200 – pack 6 m <sup>2</sup>                          |
| 40101045 | Reflector HC Easy. 3 mm. folded plate that covers 1.22 x 8.33 = 10m <sup>2</sup> |

## Heatcom heating cables for outdoor and indoor pipe protection

### Frost Guard with thermostat

The cold end is placed close to an earthed socket and the heating cable is laid alongside or wound around the pipe.



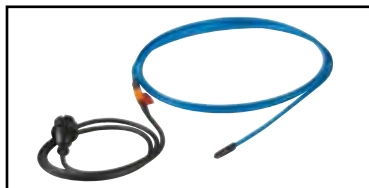
The cold end has an integral earthed Schuko plug adapted for Norwegian conditions. This installation does not have to be done by an authorised electrician.

### Frost Guard with thermostat for external frost protection of pipes - 13W/running metre

| Item no. | Designation                        | Watt  |
|----------|------------------------------------|-------|
| 43000014 | Frost Guard with thermostat- 1,4 m | 19 W  |
| 43000020 | Frost Guard with thermostat - 2 m  | 26 W  |
| 43000040 | Frost Guard with thermostat - 4 m  | 53 W  |
| 43000080 | Frost Guard with thermostat - 8 m  | 107 W |
| 43000105 | Frost Guard with thermostat-10,5 m | 140 W |
| 43000140 | Frost Guard with thermostat - 14 m | 185 W |
| 43000185 | Frost Guard with thermostat-18,5 m | 246 W |
| 43000225 | Frost Guard med termostat - 22,5 m | 300 W |

To achieve the best power output, insulation must be placed around the completed installation.

### Plug-in self-regulating cable



Heatcom "Plug-in" self-regulating heating cable for frost protection of internal or external pipes. Approved for drinking water pipes.

### Self-limiting heating cable for frost protection of internal or external pipes

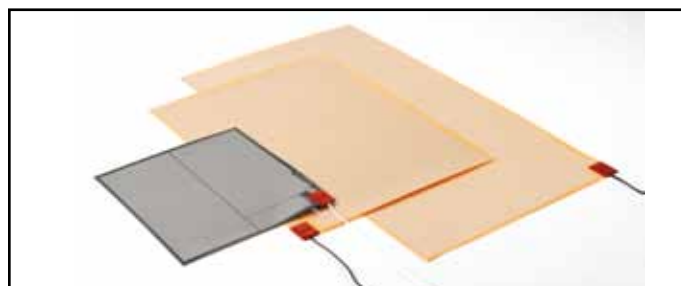
| Item no. | Designation   | Watt  |
|----------|---|-------|
| 40047002 | Pipeheat 2,0 m Cable for internal installation in pipes | 22W   |
| 40047004 | Pipeheat 4,0m Cable for internal installation in pipes  | 44W   |
| 40047006 | Pipeheat 6,0m Cable for internal installation in pipes  | 66W   |
| 40047008 | Pipeheat 8,0m Cable for internal installation in pipes  | 88W   |
| 40047010 | Pipeheat 10,0m Cable for internal installation in pipes | 110W  |
| 40047012 | Pipeheat 12,0m Cable for internal installation in pipes | 132W  |
| 40047014 | Pipeheat 14,0m Cable for internal installation in pipes | 154W  |
| 40047016 | Pipeheat 16,0m Cable for internal installation in pipes | 176W  |
| 40047019 | Pipeheat 19,0m Cable for internal installation in pipes | 209W  |
| 40047022 | Pipeheat 22,0m Cable for internal installation in pipes | 242 W |
| 40047025 | Pipeheat 25,0m Cable for internal installation in pipes | 275 W |
| 40047000 | Nipple for Pipeheat 1/2" - 3/4" transition              |       |

## Heatcom mirror heater for demisting mirrors

Self-adhesive mirror heater that can be glued to the rear of the mirror. Prevents condensation.

If the area around a mirror with heater is to be tiled, room must be allowed for possible expansion of the mirror i.e. the tiles must not be placed completely adjacent to the mirror.

The mirror heater is connected to the same circuit as the lights.



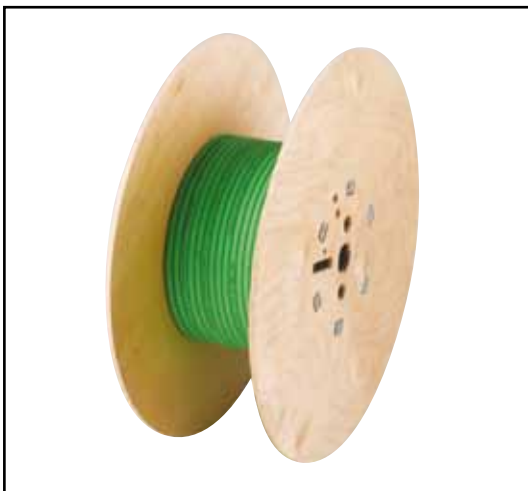
### Speilvarme for duggfrie speil

| Item no. | Description              | Watt  |
|----------|--------------------------|-------|
| 40304045 | Dimensions - 40 x 45 cm  | 70 W  |
| 40307657 | Dimensions - 76 x 57 cm  | 100 W |
| 40311060 | Dimensions - 110 x 60 cm | 144 W |



## Heatcom heating cable Industrial range

### Heatcom self-regulating heating cable



Heatcom can offer a complete range of self-limiting heating cables. For frost protection of pipes, ice-free guttering, and cables with temperatures up to 240°C.

Heatcom self-limiting heating cables can be supplied in cut-to-measure lengths or on a drum.

The cables have the necessary certificates and comply with all international standards.

### Heatcom heating cables for laying in concrete. Inside or outside 25W/running metre



Heatcom 7 mm heating cable is an all-round heating cable that is used where you need a higher power output per sq.m such as for snow melting or as a heating cable on poorly insulated surfaces.

The cable is not intended for laying in warm asphalt.

Heatcom offers a special heating cable for laying in warm asphalt that can be supplied on a drum or as a cable on mat. Lengths from 9.5m to 135m and power output from 232 W to 3410 W.

### Heatcom heating cable for hardening concrete



Heatcom heating cable for hardening concrete with attached CEE plug for 16 amp.

The cable is supplied as standard in three lengths.  
18 m/730W. 36 m/1420W. 86 m/3515W

**Heatcom has flexible production of products for underfloor heating. Only a small selection of the frost prevention range is presented in this catalogue.**

**Please ask for other dimensions and types that are not shown in the tables.**

**We supply most of your floor heating and frost prevention needs.**

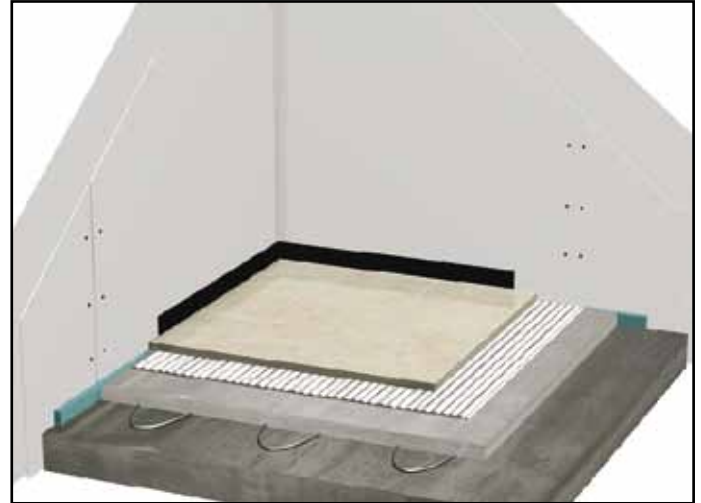
## Some examples of how to build a heated floor:

**Heating cables must always be placed on an even, clean and stable surface. Insulation under the heating cables considerably increases the effect.**

**Heating cables can be placed directly on insulation and wood, but the cables must be covered with flexible primer so that the heat is conducted up to the floor. The material in which the cable is placed must be self-supporting, i.e. be at least 30 mm thick.**

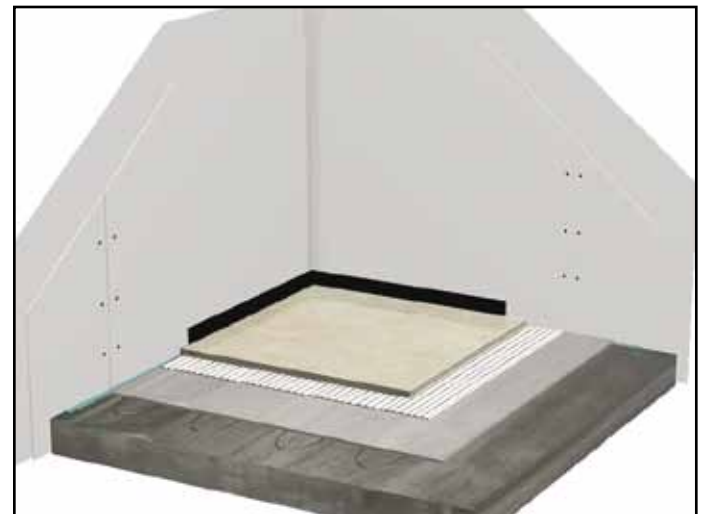
Heating cable 5.5mm in screed.  
May be placed on reinforcement or 5 mm reinforced net.

There must be no air pockets in the screed and the heating cables must be completely covered by flexible primer/tile adhesive.



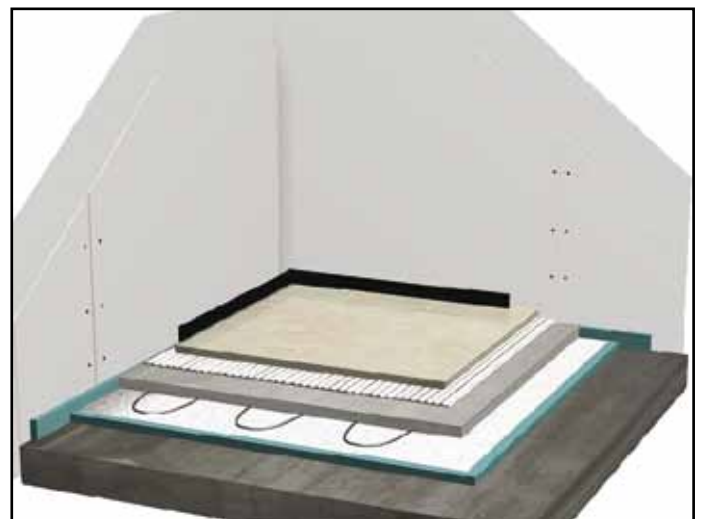
Low profile heating cable 3 mm in flexible primer.  
Flexible primer must have a minimum thickness of 5mm.

Flexible primer and adhesive must be intended for underfloor heating



Low profile heating cable 3 mm on insulation.  
Requires self-supporting layer at least 30 mm thick.

The surface must be stable to avoid cracking.



**Heating cables must be connected by an authorised electrician.**

# INFORMATION – PRIMARILY FOR YOUR INSTALLER.....!

## **Important instructions relating to your electric floor heating.**

Heatcom underfloor heating is approved in accordance with the current EN 60335-2-96 standard.

The following points must be taken into consideration together with the information on electric underfloor heating.

### **Read the following information carefully before installing the underfloor heating**

Underfloor heating can be laid in suitable tile adhesive (ask the supplier which type of adhesive) in cement/concrete or flexible primer (ask the supplier which type of flexible primer). Heating cables can also be laid on a wooden sub-floor.

- Underfloor heating must not be installed in walls or ceilings.
- Underfloor heating must be positioned at least 30 mm from electrical installations. An overview of electrical and other installations must be available before installing underfloor heating. This relates to cables and water pipes.
- Underfloor heating must not be positioned next to other sources of heat such as chimneys, light sources, and hot water pipes.
  
- The temperature of the surroundings must be at least 5°C when the underfloor heating is installed.
- Wherever possible, there must be good insulation below the underfloor heating. This saves energy.
- Underfloor heating must be installed on an even surface.
- Underfloor heating must be connected by an authorised installer.
- Underfloor heating must be connected to a ground fault circuit interrupter of max. 30mA.
- If several heating cables are to be connected together to the same thermostat, they must be connected in parallel. The location of underfloor heating must be indicated in an appropriate place in the fuse box.
- Thermal resistance/blocking (floor covering+carpet or similar) between the heating cables and the room must be max. 0.125 m<sup>2</sup>K/W.
  
- Typical insulation values:

|  |                          |
|--|--------------------------|
| Floor covering of tiles or vinyl:                              | 0,035 m <sup>2</sup> K/W |
| Medium thickness floor covering of linoleum, vinyl or similar: | 0,040 m <sup>2</sup> K/W |
| Wood and parquet floors:                                       | 0,125 m <sup>2</sup> K/W |
| Thick floors of wood fibre and carpets:                        | 0,175 m <sup>2</sup> K/W |
  
- Underfloor heating located under wood floors must have a floor sensor installed.
- Underfloor heating must be placed in an approved screed. For example, tile adhesive, cement/concrete, flexible filler or similar.
  - ◆ The screed must have a density of at least 1500kg/m<sup>3</sup>
  - ◆ The screed must have a thermal conductivity of at least 1W/m K.
  - ◆ The screed must have a uniform quality throughout the entire area.
  - ◆ The screed must be cast in a layer at least 5 mm thick. The heating cables must be fully enclosed by the screed.
  - ◆ Air pockets must not occur and are not permitted around the heating cables and in the screed.
  
  - ◆ The screed must not insulate or contain air pockets or other insulating materials.
  
  - ◆ If heating cables are laid on wood constructions, these must be on a stable sub-floor and the cables must be laid in such a way that any movement in the construction cannot damage the heating cables.
  - ◆ Care must be taken when laying heating cables. Avoid walking on the cables or damaging the cables by dropping sharp objects on the floor. Cable laid on reinforced iron must be intended for that purpose, and care must be taken when pouring concrete.
  - ◆ Avoid folds in the heating cables.
  - ◆ The cables must not cross each other.
  - ◆ Make sure that all cables and connections are placed well down in the screed.
  - ✓ Heating cables must be installed in accordance with NEK 400.  
Other relevant regulations relating to electric underfloor heating must also be complied with
  - ✓ Thermostats:  
Must be CE-marked and approved for the intended use.  
Electric underfloor heating systems must be connected to a double pole switch. If the thermostat is single pole, a double-pole switch must be positioned before the circuit.
  
  - ◆ Maximum power under wooden floors is 80-100W/m<sup>2</sup> - 230V AC (160W/m<sup>2</sup> - 240V AC)
  - ◆ Maximum permitted power per square meter is 200W



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