



# Floor HEAT Mat

o800 series

DS-605.0-0809



## 1. PRODUCT NAME

LATICRETE® Floor HEAT Mat

## 2. MANUFACTURER

LATICRETE International, Inc.  
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Bethany, CT 06524-3423 USA

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## 3. PRODUCT DESCRIPTION

LATICRETE Floor HEAT Mat is a versatile floor warming mat designed to be installed underneath tile and stone floors to provide luxury and comfort. The product includes adhesive backing for easy installation.

All electrical connections must be made by a licensed electrician. Failure to do so will void all warranties and claims. Comply with all applicable building and electrical codes. Designed for use with LATICRETE Floor Warming Thermostat.

### Advantages

- Component of LATICRETE 25 Year System Warranty and LATICRETE Lifetime System Warranty
- Self-adhesive mesh backing
- Intertwined heating element and mesh construction
- This appliance wiring material component (wire style 21427) is recognized by Underwriters Laboratories, Inc. Representative samples have been evaluated by UL and meet applicable UL requirements.

### Suitable Substrates (Interior Dry Area Only)

- Concrete†
- Mortar Beds
- Exterior Glue Plywood\*
- Existing Ceramic Tile and Stone
- Cement Terrazzo
- Cement Backer Board

\* Over TCNA approved constructs using plastic lath when using portland cement based self-leveling underlayments.

† Use LATICRETE 170 Sound & Crack Isolation Mat under LATICRETE Floor HEAT as a thermal barrier to prevent heat loss.

## Limitations

- Interior floor installations only.
- Not for use in showers, tubs or steam rooms.
- Adhesives/mastics, mortars and grouts for ceramic tile, pavers, brick and stone are not replacements for waterproofing membranes. When a waterproofing membrane is required use a LATICRETE Waterproofing Membrane (see Section 10 FILING SYSTEMS).
- **Note:** Surfaces must be structurally sound, stable and rigid enough to support ceramic/stone tile, thin brick and similar finishes. Substrate deflection under all live, dead and impact loads, including concentrated loads, must not exceed L/360 for thin-bed ceramic tile/brick installations or L/480 for thin-bed stone installations where L=length of span.

## Cautions

Consult MSDS for more safety information.

- Do not turn LATICRETE Floor HEAT on until entire installation of tile and grout has fully cured.
- During cold weather, protect finished work from traffic until fully cured.
- Keep out of reach of children.
- Do not staple heating elements directly.
- Do not allow LATICRETE Floor HEAT to come into contact with water or moisture.
- Use only appropriate size of LATICRETE Floor HEAT for specified area of floor to be heated. DO NOT TUCK/INSTALL/ FOLD EXCESS MAT INTO WALL CAVITY.

## 4. TECHNICAL DATA

### 120 VAC Standard Mat Specifications (Mat Only)

Product (W x L)	Sq. Ft.	Model Number	Watts	Amps	Ohms
1' x 10'	10'	0800-1210-2	150	1.3	96
1' x 12'	12'	0800-1212-2	180	1.5	80
1' x 15'	15'	0800-1215-2	225	1.9	64
1' x 20'	20'	0800-1220-2	300	2.5	48
1' x 23'	23'	0800-1223-2	345	2.9	42
1' x 25'	25'	0800-1225-2	375	3.1	38
1' x 30'	30'	0800-1230-2	450	3.8	32
1' x 35'	35'	0800-1235-2	525	4.4	27
1' x 40'	40'	0800-1240-2	600	5.0	24
1' x 45'	45'	0800-1245-2	675	5.6	21
1' x 50'	50'	0800-1250-2	750	6.3	19
1.5' x 37'	55.5'	0800-1837-2	832.5	6.9	17

## 120 VAC Standard Mat Specifications (Mat Only) continued

Product (W x L)	Sq. Ft.	Model Number	Watts	Amps	Ohms
1.5' x 40'	60'	0800-1840-2	900	7.5	16
1.5' x 44'	66'	0800-1844-2	990	8.3	15
1.5' x 47'	70.5'	0800-1847-2	1057.5	8.8	14
1.5' x 50'	75'	0800-1850-2	1125	9.4	13
1.5' x 54'	81'	0800-1854-2	1215	10.1	12
3' x 2'	6'	0800-3602-2	90	0.8	160
3' x 5'	15'	0800-3605-2	225	1.9	64
3' x 7'	21'	0800-3607-2	315	2.6	46
3' x 30'	90'	0800-3630-2	1350	11.3	11

## 240 VAC Standard Mat Specifications (Mat Only)

Product (W x L)	Sq. Ft.	Model Number	Watts	Amps	Ohms
1.5' x 13'	19.5'	0800-1813-4	292.5	1.2	197
1.5' x 20'	30'	0800-1820-4	450	1.9	128
1.5' x 27'	40.5'	0800-1827-4	607.5	2.5	95
1.5' x 33'	49.5'	0800-1833-4	742.5	3.1	78
1.5' x 40'	60'	0800-1840-4	900	3.8	64
1.5' x 47'	70.5'	0800-1847-4	1057.5	4.4	54
1.5' x 53'	79.5'	0800-1853-4	1192.5	5.0	48
3' x 30'	90'	0800-3630-4	1350	5.6	43
3' x 35'	105'	0800-3635-4	1575	6.6	37
3' x 40'	120'	0800-3640-4	1800	7.5	32
3' x 45'	135'	0800-3645-4	2025	8.4	28
3' x 50'	150'	0800-3650-4	2250	9.4	26

## 5. INSTALLATION

Please refer to LATICRETE® Floor HEAT Installation Instructions DS 605.9. **Installation of LATICRETE Floor HEAT over LATICRETE 170 Sound & Crack Isolation Mat for use as a thermal barrier.**

Use a LATICRETE polymer fortified multipurpose thin-set adhesive (e.g. LATICRETE 254 Platinum or LATICRETE SureSet™) to adhere the LATICRETE 170 Sound & Crack Isolation Mat to the substrate. Use 1/4" x 1/4" (6 mm x 6 mm) notched trowel and comb mortar over substrate, apply only enough mortar as can be covered within 25 minutes. Unroll the LATICRETE 170 Sound & Crack Isolation Mat into place, in the thin-set adhesive mortar. Install LATICRETE 170 Sound & Crack Isolation Mat over the area to be treated, do not overlap edges but be sure edges of each piece butt firmly together. Once installed, use a 25–45 lbs (11.3–20 kg) roller to embed the LATICRETE 170 Sound & Crack Isolation Mat firmly into the thin-set adhesive mortar. Allow to cure for 24 hours at 70°F (21°C). Trim length of mat to desired length and width.

Once fully cured, install LATICRETE Floor HEAT on top of the LATICRETE 170 Sound & Crack Isolation Mat. Use the flat side of a trowel OR a rubber float to apply a smooth skim-coat of thin-set mortar over LATICRETE Floor HEAT Mat. Make sure to use enough mortar to encapsulate the heating element in its entirety. Then allow the protective layer of LATICRETE polymer fortified thin-set mortar to set. Once fully cured, install ceramic tile, porcelain or stone finish directly over the cured thin-set using additional LATICRETE polymer fortified thin-set adhesive. Refer to DS 605.9, LATICRETE Floor HEAT Installation Manual for proper placement of LATICRETE Floor HEAT wiring.

## 6. AVAILABILITY AND COST

### Availability

LATICRETE Floor Warming products are available in North America.

### For distributor information:

Toll Free: 1.800.243.4788, ext. 235  
 Telephone: +1.203.393.0010  
 Internet: [www.laticrete.com](http://www.laticrete.com)

### Cost

Contact a LATICRETE Distributor in your area.

## 7. WARRANTY

See 10. FILING SYSTEM

DS 230.13: LATICRETE Product Warranty

A component of:

DS 025.0: LATICRETE 25 Year System Warranty

DS 230.99: LATICRETE Lifetime System Warranty

## 8. MAINTENANCE

Following installation, the LATICRETE Floor Warming Mat does not require any maintenance.

## 9. TECHNICAL SERVICES

### Technical assistance

Information is available by calling:

Toll Free: 1.800.243.4788, ext. 235

Telephone: +1.203.393.0010, ext. 235

Fax: +1.203.393.1948

To acquire technical and safety literature, please visit our website at [www.laticrete.com](http://www.laticrete.com).

## 10. FILING SYSTEM

DS 230.13: LATICRETE Product Warranty

DS 025.0: LATICRETE 25 Year System Warranty

DS 230.99: LATICRETE Lifetime System Warranty

DS 604.0: LATICRETE Wire Eye™

DS 606.0: LATICRETE Floor Warming Thermostat

DS 606.6: LATICRETE Floor Warming Thermostat Installation Instructions

DS 236.0: LATICRETE 9235 Waterproofing Membrane

DS 605.9: LATICRETE Floor HEAT Installation Manual

DS 170.0: LATICRETE 170 Sound & Crack Isolation Mat

DS 677.0: LATICRETE 254 Platinum

DS 261.0: LATICRETE SureSet

DS 663.0: LATICRETE Hydro Ban™