



Floor Heat Mat

0800 Series

DS-605.0-0314

**Globally Proven
Construction Solutions**



1. PRODUCT NAME

Floor Heat Mat

2. MANUFACTURER

LATICRETE International, Inc.
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3. PRODUCT DESCRIPTION

Floor Heat Mat is a versatile floor warming mat designed for use under many types of finished floor coverings 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 Floor Warming Thermostat.

Advantages

- Component of LATICRETE® 25 Year Tile and Stone System Warranty (DS-025.0) and LATICRETE Lifetime Tile and Stone System Warranty (DS-230.99).
- 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 170 Sound & Crack Isolation Mat under 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 Floor Heat on until entire installation of tile and grout has for a minimum of 72 hours at 70°F (21°C) 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 Floor Heat to come into contact with water or moisture.
- Use only appropriate size of 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 Floor Heat Installation Instructions DS 605.9.

Installation of Floor Heat Over 170 Sound & Crack Isolation Mat For Use As a Thermal Barrier.

Use a polymer fortified multipurpose thin-set adhesive (e.g. 254 Platinum or SURE SET™) to adhere the 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 170 Sound & Crack Isolation Mat into place, in the thin-set adhesive mortar. Install 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 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 Floor Heat on top of the 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 Floor Heat Mat. Make sure to use enough mortar to encapsulate the Heating element in its entirety. Then allow the protective layer of 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 polymer fortified thin-set adhesive. Refer to DS 605.9, Floor Heat Installation Manual for proper placement of Floor Heat wiring.

6. AVAILABILITY AND COST

Availability

Floor Warming products are available in North America.

For Distributor Information Call:

Toll Free: 1.800.243.4788

Telephone: +1.203.393.0010

For on-line Distributor information, visit LATICRETE at www.laticrete.com.

Cost

Contact a LATICRETE Distributor in your area.

7. WARRANTY

See 10. FILING SYSTEM

DS 230.13: LATICRETE Product Warranty (United States and Canada)

A component of:

DS 025.0APD: LATICRETE 25 Year Tile and Stone System Warranty (United States and Canada)

DS 230.99: LATICRETE Lifetime Tile and Stone System Warranty (United States and Canada)

8. MAINTENANCE

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

9. TECHNICAL SERVICES

Technical Assistance

Information is available by calling the LATICRETE Technical Service

Hotline:

Toll Free: 1.800.243.4788, ext. 235

Telephone: +1.203.393.0010, ext. 235

Fax: +1.203.393.1948

Technical and Safety Literature

To acquire technical and safety literature, please visit our website at www.laticrete.com.

10. FILING SYSTEM

Additional product information is available on our website at

www.laticrete.com. The following is a list of related documents:

DS 230.13: LATICRETE Product Warranty (United States and Canada)

DS 025.0APD: LATICRETE 25 Year Tile and Stone System Warranty (United States and Canada)

DS 230.99: LATICRETE Lifetime Tile and Stone System Warranty (United States and Canada)

DS 170.0: 170 Sound & Crack Isolation Mat

DS 236.0: 9235 Waterproofing Membrane

DS 261.0: SURE SET™

DS 604.0: WIRE EYE™

DS 606.0: Floor Warming Thermostat

DS 663.0: HYDRO BAN®

DS 677.0: 254 Platinum

DS 605.9: Floor Heat Installation Manual

DS 606.6: Floor Warming Thermostat Installation Instructions

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