



Installation Guide

HeatFloor

Electric Floor Heating & Uncoupling Membrane

HeatFloor is an electric floor heating and uncoupling membrane that provides warmth, waterproofing, vapor management, and load distribution beneath tile and resilient floor coverings. The studded membrane securely holds heating cables in place, allowing fast installation without self-leveling compounds.

Suitable Substrates

- Concrete slabs
- Mortar beds
- Primed plywood subfloors (structurally sound)
- Self-leveling underlayments
- Existing tile (clean and properly bonded)

Not suitable for:

- Carpeting or soft underlays
- Uneven, unstable, or moisture-compromised substrates

Required Tools & Materials

- Utility knife or shears
- Measuring tape & marker
- Straightedge or smoothing tool
- Thin-set mortar (polymer-modified)
- HeatFloor Heating Cables (where heating is desired)
- Floor temperature sensor & compatible thermostat
- Floor covering materials (tile, stone, or approved resilient flooring)

Surface Preparation

1. Ensure substrate is clean, flat, dry, and structurally sound.
2. Remove debris, dust, coatings, or contaminants.

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3. Check substrate moisture if required by local codes.
4. Plan layout to minimize seams and cable routing interruptions.

Installation Steps

1. Dry Fit and Layout Planning

- Pre-cut membrane sections to fit room dimensions.
- Mark cable-free areas (toilet bases, cabinets, vents).
- Determine thermostat and sensor placement.

2. Apply Mortar

- Spread thin-set mortar using a suitable notched trowel.
- Cover only an area that can be immediately installed.

3. Embed the Membrane

- Press HeatFloor membrane fleece-backed side into mortar.
- Use a smoothing tool to ensure full contact and no voids.
- Align sheets with tight seams—do not overlap.

4. Install Heating Cable (if heating is required)

- Snap cable into stud channels without crossing or spacing irregularities.
- Maintain manufacturer-recommended cable spacing.
- Do not install under permanent fixtures.
- Install floor temperature sensor between cable runs.

5. Tile or Floor Covering Installation

- Apply thin-set mortar over the membrane and cable.
- Install tile, stone, or approved flooring directly above.
- Ensure full coverage without damaging cables.

6. Curing & Power Activation

- Allow mortar to cure per manufacturer recommendations.
- Do not energize the system until curing is complete.
- Connect thermostat and verify function after installation is finished.

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Waterproofing Considerations (Optional)

- Seal seams using HeatFloor sealing tape.
- Seal wall junctions where required.
- Ensure drain transitions are compatible for wet-area installations.

Safety Guidelines

- Follow electrical codes and use licensed electricians where required.
- Do not cut heating cable.
- Avoid sharp tools near energized components.
- Check resistance readings before, during, and after installation.

Storage

- Store flat or rolled in a dry, protected area.
- Avoid prolonged UV exposure or high heat.

Maintenance & Warranty

HeatFloor do not need special maintenance after installed; Lifetime warranty from the day of installation if it is quality defects.

Remark:

Recommendations on methods, materials, and construction details are provided by Ark Synthetics based on current knowledge and experience. They serve as a general guide for designers, contractors, and manufacturers. Installation should also consider local conditions, project-specific requirements, and guidance from designers or other qualified professionals. For project assistance, contact: info@arksynthetics.com

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