Therma-Floor® is a gypsum underlayment by Maxxon® Corporation designed specifically for radiant floor heating systems. Poured over hot water tubes or electric heating cables, it’s the ideal thermal mass for any radiant floor system.

Therma-Floor encases the tubes or cables in noncombustible gypsum specially formulated to resist breakdown to 150 °F (66 °C). Poured only 1 ¼” (32 mm) thick, Therma-Floor also makes your heating system more stable — and your home more comfortable.

Some radiant systems install under plywood subfloors resulting in lost heat, as plywood is nearly 4 times more insulative than Therma-Floor. Therma-Floor works above the subfloor for greater efficiency and consistent comfort.

Therma-Floor is an eco-friendly building product, and is GREENGUARD and GREENGUARD Gold certified.

WHY A RADIANT FLOOR HEATING SYSTEM ISN’T COMPLETE WITHOUT THERMA-FLOOR:

- Resists heat deterioration — it’s formulated specifically for radiant floor heating
- Enhances heating system responsiveness due to its thin thermal mass
- Provides a smooth, tough surface
- Stiffens the floor
- Seals perimeter walls, keeping out baseboard drafts
- Eliminates squeaks and nail pops common to wood underlayments
- Muffles sound transfer
- Backed by a nationwide applicator network with over 4 billion square feet of installation experience
- Accepts virtually all floor coverings
- Contains no urea formaldehyde
The responsibility of the general contractor/project superintendent. The general contractor/project superintendent must supply mechanical
moisture that releases after installation. Outside sources such as rain, snow, wind, etc. can also increase moisture levels.

Drywall compound and even dust, it is vital to maintain a low relative humidity both before and after placement of Maxxon Gypsum
Underlayments. Underlayments.

PREPARATION
Building interior should be enclosed and maintained at a temperature above 50 °F (10 °C) until structure and subfloor temperatures are stabilized. Preferred wood-frame construction is tongue-and-groove veneer or nonveneer subfloors. The subfloor must be broom clean and contaminant free. Before pouring Thermafloor®, the subfloor is coated with a company approved primer.

INSTALLATION METHODS
The thickness of Therma-Floor varies with the type of radiant floor heating system. Therma-Floor is poured to a depth that is 3/4” (19 mm) above the tops of the tubes or cables, in one or two lifts at the discretion of the installer.

Continuous ventilation and adequate heat should be provided to rapidly remove moisture from the area until the underlayment is dry. The general contractor/project superintendent must supply mechanical ventilation and heat, if necessary.* Under the above circumstances, drying time of 10 to 14 days is usually adequate. Reference the Building Conditions Guide for complete installation guidelines.

For a complimentary copy of the brochure, Procedures for Attaching Finished Floor Goods, contact Maxxon Corporation. It is the responsibility of the floor goods installer to determine the compatibility of their product with a particular floor underlayment.

LIMITATIONS
1. Therma-Floor is to be poured to a depth that is 3/4” (19 mm) above the tops of the tubes or cables.
2. Therma-Floor can be poured before or after drywall is installed.
3. All materials above crawl spaces must be protected by a vapor barrier.
4. During construction, place temporary wood planking over the underlayment wherever it will be subjected to heavy wheeled or concentrated loads.
5. Therma-Floor is not designed to be installed on or below grade, except over well-drained structural substrates.

*DRYING CONDITIONS
Maxxon Gypsum Underlayments are inorganic and provide no source of nutrients to sustain mold growth. Prolonged contact of moisture with other construction materials, however, can result in mold growth. To avoid growth of mold on construction materials such as wallboard, Therma-Floor is non-conductive and therefore cannot be expected to reinforce structurally deficient subfloors. Necessary allowances should be made for expectable, concentrated, impact, and/or dead loads including the weight of finished floor goods and setting beds.

6. The structural subfloor and floor joist must both comply with manufacturers’ maximum span criteria. Typically a deflection limitation of 1/360 is adequate for Therma-Floor. Some floor coverings may require a stiffer floor system. Therma-Floor is non-structural and therefore cannot be expected to reinforce structurally deficient subfloors. Necessary allowances should be made for expectable, concentrated, impact, and/or dead loads including the weight of finished floor goods and setting beds.

7. Additional consideration should be taken for concentrated dynamic loads. U.S. building codes typically specify a uniform live load of 40 pounds per square foot for residential floor designs. This load is intended to account for large loads that can occur in a building. In reality these loads are not uniform, but rather consist of items such as furniture and appliances that actually induce concentrated loads for exceeding 40 lbs per sq ft. Rolling concentrated loads such as office chairs, wheel chairs, and motorized scooters add turning, twisting, repetition, and other dynamics which should also be taken into consideration.

Determining the appropriate structural design of the floor is not the responsibility of Maxxon nor the Maxxon applicator.

8. Therma-Floor should not be used for exterior applications, or where it will come in prolonged contact with water.

9. Therma-Floor should not be applied directly to a plastic vapor barrier.

10. Maxxon Underlayments are “breathable” and not a vapor barrier. The general contractor/project superintendent, architect, specifier, or builder/owner shall test slabs-on-ground or elevated slabs for MVER (ASTM F1869-09) or RH (ASTM F2170). If the MVER or RH of the concrete substrate exceeds the floor covering manufacturer’s respective requirements for the finished flooring system, the concrete must be treated with a damp proof membrane, such as Maxxon DPM or Maxxon MVP, before installation of a Maxxon Underlayment.

ACOUSTICAL PERFORMANCE
The acoustical performance of all Maxxon Underlayments is similar. For additional product literature and information are available upon request. CSI formatted specifications are available at www.maxxon.com.

TESTING
Compressive strength testing must be performed in accordance with modified ASTM C472. Before independent sampling, contact the Maxxon Corporation quality control department to ensure that proper procedures are followed.

WARRANTY
See our website for complete warranty information.

EVALUATION REPORTS
UL Design
UL 2540
UL 477-01
Underwriter Laboratory International

CODE LISTINGS

PRODUCT SUPPORT
Additional product literature and information are available upon request. CSI formatted specifications are available at www.maxxon.com.

LEED INFORMATION
For information regarding how Thermo-Floor may help contribute toward points for LEED project contribution, contact your Regional Representative at (800) 356-7887 or visit www.maxxon.com/go.green.

PROJECT SUPPORT
Additional product literature and information are available upon request. CSI formatted specifications are available at www.maxxon.com.