Rapid Floor® Plus is the perfect solution when your project calls for a tougher, more durable floor surface. With compressive strengths from 2,000 to 3,200 psi (13.8 to 22.1 MPa), Rapid Floor Plus provides the increased surface hardness that's critical in renovation, multifamily, single family, and light commercial projects.

With application rates up to 40,000 square feet (3,716 m²) in a single day, Rapid Floor Plus installs quickly and can be walked on within 90 minutes. By the next day it is strong enough to allow light trade work to resume and its smooth surface is ready to receive finished floor goods. But the benefits don’t stop there – you also get significant sound control and additional fire resistance.

Rapid Floor Plus is considered a “green” building material, and meets the stringent requirements of the new GREENGUARD Gold Certification Program.
PREPARATION
Building interior should be enclosed and maintained at a temperature above 50 °F (10 °C) until structure and subfloor temperatures are stabilized. The subfloor must be broom clean and contaminant free. Before pouring Rapid Floor® Plus, coat the subfloor with a company approved primer.

INSTALLATION METHODS
The thickness of Rapid Floor Plus varies with the type of floor system used:
- Minimum wood frame construction is agency-approved 19/32" (15 mm), 40/20 veneer and nonveneer subfloor panels.
- Preferred wood frame construction is 3/4" (19 mm) Rapid Floor Plus over 3/4" (19 mm) tongue-and-groove, agency-approved subfloor with joists, truss or beam spacings of 16" to 24" (406 mm to 610 mm) o.c. In wood renovation Rapid Floor Plus is installed at a minimum depth of 3/4" (19 mm).
- Precast concrete plank construction shall be covered by a minimum 1/2" (13 mm) of Rapid Floor Plus or 3/8" (10 mm) using a 1.4 mix design. Joints between precast units must be grouted by others prior to application.
- Over concrete, the minimum thickness of Rapid Floor Plus is usually 1/2" (13 mm). However, the 1.4 mix design can be featheredged.

Consult your authorized Rapid Floor dealer for the appropriate mix design and compressive strength to meet the needs of your project.

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 conditions, drying time of 5 to 7 days is usually adequate. 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. The typical maximum depth of Rapid Floor Plus is 3" (76 mm). For depths greater than 3" (76 mm), contact an installer to determine the compatibility of their product with a particular floor underlayment.
2. Rapid Floor Plus may be scheduled before or after installation of drywall.

*DRIYING CONDITIONS
Rapid Floor Underlayment is a non-sag adhesive and provides no source of nutrients to sustain mold growth. Proper control of moisture with other construction materials, however, can result in mold growth. To avoid growth of mold on construction materials such as wallboard, drypainted and even dirt, it is vital to maintain a low relative humidity both before and after placement of Rapid Floor Underlayment.

The general contractor/project superintendent must provide and maintain correct environmental conditions to keep the building clean and dry, and protect against infiltration of moisture from a variety of potential sources. Moisture can be introduced by other trades through spraying, trickled in mud and rain, plumbing leaks, etc. Often stored in damp conditions, building products may come on-site laden with moisture that releases during hydration. Concrete sources such as rain, snow, wind, etc. can also increase moisture levels. Controlling moisture levels in the building, through appropriate trade sequencing and prevention of potential damage by other trades, is the responsibility of the general contractor/project superintendent. The general contractor/project superintendent must supply mechanical ventilation and heat of necessity.

These controls fail under the scope of work of the general contractor/project superintendent — not Rapid Floor Systems nor the Rapid Floor gypsum underlayment installer. See Maxxon Building Conditions Guide for additional information.

3. All materials above crawl spaces must be protected by a vapor barrier.
4. During construction, place temporary wood planking over underlayment wherever it will be subjected to heavy wheeled or concentrated loads.
5. Rapid Floor Plus is not designed to be installed on or below grade, except over well-structured substrates.
6. The structural floor should be adequate to withstand design loads with deflection limitations of L/360. The structural subfloor and floor joist must both comply with manufacturers’ maximum span criteria. Typically a deflection limitation of L/360 is adequate for Maxxon Underlayments. Some floor coverings may require a stiffer floor system. Maxxon Underlayments are non-structural and therefore cannot be expected to reinforce structurally deficient subfloors. Necessary allowances should be made for live, concentrated, impact, and/or dead loads including the weight of 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 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 far 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 Rapid Floor Systems nor the Rapid Floor applicator.
8. Rapid Floor Plus should not be used for exterior application, or where it will come in prolonged contact with water.
9. Rapid Floor Plus should not be directly applied to a plastic vapor barrier.
10. Rapid Floor Underlayment are “breathable” and not a vapor barrier. The general contractor/project superintendent, architect, specifier, or building owner shall test slabs-on-ground vapor barrier. The general contractor/project superintendent, architect, specifier, or building 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 moisture vapor barrier, such as Maxxon DPM or Maxxon MVP, before installation of Rapid Floor Underlayment.

SOUND CONTROL UPGRADE
For upgraded sound control, AcoustiMat® Sound Control Systems are recommended for installation with Rapid Floor Plus. AcoustiMat are acoustically engineered to isolate sound waves and reduce transmission of impact and airborne sound — even with hard surface floor goods and setting beds.

CODE LISTINGS

TESTING
Compressive strength testing must be performed in accordance with modified ASTM C377. Before independent sampling, contact Rapid Floor Systems quality control department to ensure that proper procedures are followed.

WARRANTY
See our website for complete warranty information.

For more information contact your Rapid Floor Systems representative or visit our website: www.rapidfloor.com

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

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