

# Rapid Floor<sup>®</sup> Plus

## Underlayment



From commercial, multifamily and single-family construction to renovation projects, Rapid Floor Plus provides the speed and smooth surface you need for project success.



Rapid Floor<sup>®</sup> Plus is the perfect solution when your project calls for a tougher, more durable floor surface. With compressive strengths from 2000 to 32000 psi (13.8 to 22.1 MPa), Rapid Floor Plus provides the increased surface hardness that's critical in renovation, single-family and light commercial projects.

Rapid Floor Plus meets your project challenges with:

- A smooth, tough surface that accepts nearly all floor coverings
- No shrink cracking
- Enhanced floor stiffness that reduces floor bounce
- A seal along the perimeter walls that keeps out baseboard drafts
- Elimination of squeaks and nail pops common to wood underlayments
- Fire resistance
- Muffled sound transfer



With Rapid Floor Plus on the job, you'll get speedy installation and a new, smooth surface ready for finished floor goods. But the benefits don't stop there - you also get significant sound control and additional fire resistance.



**Rapid Floor<sup>®</sup>  
Systems**

*A Reputation You Can Stand On<sup>®</sup>*

# Rapid Floor<sup>®</sup> Plus Underlayment

**Testing:** Comprehensive strength testing must be performed in accordance with modified ASTM C472. Before independent sampling, contact the Maxxon<sup>®</sup> Corporation quality control department to ensure that proper procedures are followed.

**Warranty:** Rapid Floor<sup>®</sup> Plus underlayment is warranted to be free from manufacturing defects as defined in this warranty. Manufacturing defects are considered to be those defects that occur due to the quality of the underlayment ingredients or from the manufacturing process itself. This warranty does not include labor costs and other costs or expenses associated with the removal or installation of any underlayment. Because Maxxon<sup>®</sup> Corporation does not install the underlayment, it cannot be held responsible for the results of the application. Maxxon Corporation specifically disclaims problems that occur due to weather conditions, structural movement, structural design flaws and application techniques. This warranty is in lieu of all other warranties expressed or implied including the warranty of merchantability and fitness of purpose and of all other obligation or liabilities on Maxxon Corporation's part. Maxxon Corporation neither assumes, nor authorizes any person to assume for Maxxon Corporation, any liability with the sale and installation of any of its floor underlayments.

**Rapid Floor Systems**  
A Reputation You Can Stand On<sup>®</sup>

## Preparation

Building interior should be enclosed and maintained at a temperature of 50 °F (10 °C) until structure and subfloor temperatures are stabilized. The subfloor must be broom clean and contaminant free. Before pouring Rapid Floor<sup>®</sup> Plus, coat the subfloor with a company approved primer.

## Methods of Installation

The thickness of Rapid Floor<sup>®</sup> 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 ¾" (19mm) Rapid Floor<sup>®</sup> Plus over ¾" (19mm) tongue and groove, agency-approved subfloor with joists, truss or beam spacings of 16" (406mm to 609mm) o.c.

**Precast concrete plank construction** shall be covered by a minimum ½" (13mm) of Rapid Floor Plus (or 3/8" (10mm) using a 1.4 mix design). Joints between precast units must be grouted by others prior to application.

Poured-in-place concrete slabs shall be covered with a minimum 3/8" (10mm) of Rapid Floor Plus using a 1.4 mix design. The concrete slab must be 28 days or older and free of grease or other contaminants.

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 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 Rapid Floor Systems. It is the responsibility of the floor goods installer to determine the compatibility of their product with a particular floor underlayment.

## Technical Data

Compressive Strengths: Up to 3,200 psi (22.1 MPa) when tested in accordance with modified ASTM C 472.

Density: Typical density of 115 pounds per cubic foot (1.840 kg/m<sup>3</sup>)

Coefficient of Conductivity (K):

4.3 Btu-inch/hour- F (.68 W/[m °C])

Specific Heat: .25 Btu/(lb °F) at 85 °F (.94 kJ/[kg °C] 29.44 °C)

Acoustical Performance: The acoustical performance of Rapid Floor Plus is similar to Rapid Floor Underlayment. Contact Rapid Floor Systems for reports.

Surface Burning Characteristics: Flame spread index – 0, fuel contributed - 0, smoke development – 0 (ASTM E 84)

## Code Listings

SBCCI Report No 9622

BOCA Report No. 93-60

ICBO Report No 4950

HUD Materials Release No 1286a

City of New York MEA 49-92-M Vol. III

City of Los Angeles RR 25186

## Limitations

1. The maximum poured depth of Rapid Floor Plus is 3" (76mm). For depths greater than 3" contact your Rapid Floor Systems applicator.
2. Rapid Floor Plus 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. Rapid Floor Plus is not designed to be installed on or below grade, except over well-drained structural substrates.
6. The structural floor should be adequate to withstand design loads with a deflection limitation of L360.
7. Rapid Floor Plus should not be used directly over metal forms, for exterior application, or where it will come in prolonged contact with water.
8. Rapid Floor Plus should not be applied directly to a plastic vapor barrier.
9. Concrete moisture or vapor emission must be eliminated by others prior to a Rapid Floor Systems underlayment application for below grade, on grade or suspended slabs.

## Sound Control Upgrade

For upgraded sound control, the Acousti-Mat<sup>®</sup> II Sound Deadening System is recommended for installation with Rapid Floor Plus. Acousti-Mat II is acoustically engineered to isolate sound waves and reduce transmission of impact and airborne sound up to one half – even with hard surface floor goods such as tile and hardwood floors.

For customized CSI specs, contact your Rapid Floor Systems applicator or visit our website: [www.rapidfloor.com](http://www.rapidfloor.com)

## Fire Ratings

Rapid Floor Systems products are covered in the following UL Fire Resistive Designs:

### UL Design #

| Wood Construction | UL Design # | UL Design #                  | UL Design # |
|-------------------|-------------|------------------------------|-------------|
| L001              | L505        | L531                         | L541        |
| L003              | L506        | L532                         | L544        |
| L004              | L507        | L534                         | L546        |
| L005              | L509        | L535                         |             |
| L006              | L511        |                              |             |
| L201              | L512        | <b>Concrete Construction</b> |             |
| L202              | L513        | J917                         | J931        |
| L206              | L514        | J919                         | J957        |
| L208              | L515        | J920                         | J966        |
| L209              | L518        | J924                         | J991        |
| L210              | L519        | J927                         | J994        |
| L211              | L522        |                              |             |
| L212              | L523        |                              |             |
| L501              | L524        | <b>Precast Concrete</b>      |             |
| L502              | L525        | K906                         |             |
| L503              | L526        |                              |             |

### Underwriter's Laboratories Of Canada Fire Rated Listings

|      |      |      |      |
|------|------|------|------|
| L003 | L511 | M500 | M503 |
| L201 | L512 | M501 | M508 |

