

Rapid Floor® Ultra

UNDERLAYMENT



Ultra Strong, Ultra Fast. Rapid Floor Ultra Gives You the Ultimate Edge.

For new construction or renovation, it's hard to match Rapid Floor Ultra's impressive list of application benefits. For reliably superior results, count on Rapid Floor Ultra, one of the strongest gypsum floor underlayments available, to:

- Cap uneven, rough, cracked or spalled concrete
- Level entire floors or transition areas, featheredge to deepfill
- Resurface old or damaged concrete floors
- Perform up to 4000 PSI (27 MPa)
- Resist water absorption
- Fill voids in concrete floors
- Top precast planks
- Install right over old floor coverings, including vinyl asbestos tile
- Provide fire and sound control over wood frame construction
- Install above, on or below grade
- Require no troweling
- Provide a temporary wear surface just 2-4 hours after application
- Exceed standards set by leading floor goods manufacturers
- May contribute points to LEED project certification



NEW!
**Rapid Floor Ultra —
Now Always a "Green"
Building Material**



Besides the tough new floor which allows trades to continue their work and stay on schedule, commercial projects also benefit from added sound and fire control.

Rapid Floor Ultra is now always a "green" building material, manufactured with recycled content. It is GREENGUARD Children & Schools certified and may help contribute points to LEED project certification.

Floor goods go down fast and easy too, over Rapid Floor Ultra's smooth, hard surface. With proper ventilation, nearly any type of floor covering can be installed within three to five days of a Rapid Floor Ultra pour. Carpet, vinyl, wood, tile... they'll all look better and last longer, thanks to Rapid Floor Ultra's even, flat surface.

**Rapid Floor®
Systems**

A Reputation You Can Stand On®

Rapid Floor® Ultra

UNDERLAYMENT

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*** 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, drywall compound and even dust, it is vital to maintain a low relative humidity both before and after placement of Maxxon gypsum underlayments.

The general contractor must provide and maintain correct environmental conditions to keep the building clean and dry, and protect against infestation of moisture from a variety of potential sources. Moisture can be introduced by other trades through spillage, tracked in mud and rain, plumbing leaks, etc. Often stored in damp conditions, building products may arrive on site laden with moisture that releases after installation. Outside 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. The general contractor must supply mechanical ventilation and heat if necessary. These controls fall under the scope of work of the general contractor — not Maxxon Corporation or the Maxxon gypsum underlayment installer.

Testing: Testing of Rapid Floor Systems underlayments shall be done in accordance with modified ASTM C 472.

Warranty: Rapid Floor® Ultra 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 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 obligations 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®

For more information:
1-800-FLOOR-20 (356-6720)
E-mail: info@rapidfloor.com
www.rapidfloor.com

Another superior product from

Maxxon® Corporation

920 Hamel Road, P.O. Box 253
 Hamel, Minnesota 55340 USA
 763-478-9655
 FAX: 763-478-9695

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The GREENGUARD INDOOR AIR QUALITY CERTIFIED® Mark is a registered certification mark used under license through the GREENGUARD Environmental Institute.

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® Ultra, coat the subfloor with a company approved primer.

Methods of Installation

The minimum thickness of Rapid Floor Ultra varies with the type of floor system. Rapid Floor Ultra can be featheredged over concrete substrates. Over wood frame construction, the minimum thickness is 3/4" (19 mm). It can be poured before or after drywall.

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 is usually 5–7 days.

Rapid Floor Ultra requires a floor covering. For detailed instructions on attaching finished floor materials, request the brochure *Procedures for Attaching Finished Floor Goods to Maxxon Underlayments*. 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 Ultra is 3" (76 mm). For depths greater than 3" (76 mm), contact an authorized applicator.
- (2) Rapid Floor Ultra may be scheduled before or after installation of drywall.
- (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 Ultra is not designed to be installed on or below grade, except over well-drained structural substrates.
- (6) The structural subfloor and floor joist must both comply with manufactures' maximum span criteria. Typically a deflection limitation of L/360 is adequate for Rapid Floor Ultra. Some floor coverings may require a stiffer floor system. Rapid Floor Ultra is non-structural and therefore cannot be expected to reinforce structurally deficient subfloors. Necessary allowances should be made for expected live, concentrated, impact, and/or dead loads including the weight of finished floor goods and setting beds.
- (7) Rapid Floor Ultra should not be used for exterior application, or where it will come into prolonged contact with water.
- (8) Rapid Floor Ultra should not be directly applied to a plastic vapor barrier.
- (9) Maxxon underlayments are "breathable" and not a vapor barrier. The general contractor, 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 damp proof membrane, such as Maxxon DPM, before installation of a Maxxon underlayment.

SAMPLE USGBC LEED CREDIT AREAS*			
Project	Credit	Category	How Requirement is Fulfilled
Indoor Environmental Quality	IEQ 3.2	Air Quality Before Occupancy	GREENGUARD Certified (Testing MUST be performed before claiming credit)
	IEQ 4.3	Low Emitting Materials: Floor System	GREENGUARD Children & Schools™ Certified
Materials & Resources	MR 2	Construction Waste Management	Recyclable packaging and shipping materials
	MR 4	Recycled Content	Fly Ash
	MR 5	Local/Regional Materials	Manufactured in Blue Rapids, KS 66411; Las Vegas, NV 89036; Camden, NJ 08103; Job Site Manufactured with Local Sand & Water
Innovation & Design	ID 1	Sound Control	Enhanced living environment

* Credits may vary depending on project type and Rapid Floor products used. Contact Maxxon Corporation for complete information.

TECHNICAL DATA

Compressive Strengths: 2500–4000 psi (17.2–27.4 MPa)
Installed Weight: 3/8" (10 mm) = 3.5 lb/ft² (15.9 kg/m²) 1" (25 mm) = 9.2 lb/ft² (42.4 kg/m²)
Dry Density: 115–120 lbs/ft³ (1840–1900 kg/m³)
K-Factor: 5.2 Btu-inch/hour·°F-ft² (7.4 W/m·°C)
Specific Heat: 0.25 Btu/lb·°F (0.94 kJ/kg·°C)
Surface Burning Characteristics (ASTM E84): Flame spread index - 0, fuel contributed - 0, smoke density - 0
Point Loading: Typical loading of up to 3500 lbs. (1590 kg) on a 1" (25.4 mm) dia. disk @ 0.007" maximum indentation

CODE LISTINGS

ICC-ES Legacy Report ESR-2540
 ICC-ES Legacy Report No. 93-60
 HUD Materials Release No. 1286c
 GREENGUARD Children and Schools™ Certified

UL FIRE RESISTANCE RATINGS

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

G524	J966	L501	L516	L534	L552	L585
G560	J991	L502	L517	L535	L555	L588
G561	J994	L503	L518	L536	L556	L589
G563	K906	L504	L519	L537	L557	L592
G566	L004	L505	L520	L538	L558	L593
G574	L005	L506	L522	L539	L560	L594
G576	L006	L507	L523	L540	L562	L599
J917	L201	L508	L524	L541	L563	M500
J919	L202	L509	L525	L542	L564	M503
J920	L206	L510	L526	L543	L573	M504
J924	L208	L511	L527	L545	L574	M505
J927	L209	L512	L528	L546	L575	M506
J931	L210	L513	L529	L547	L579	
J957	L211	L514	L530	L549	L581	
J958	L212	L515	L533	L551	L583	

ULC Design

L003	L511	M500	M503	M514
L201	L512	M501	M513	M517