

<p style="text-align: center;">DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT Housing - Federal Housing Commissioner</p> <p>TO: DIRECTORS, SINGLE FAMILY HOCs DIRECTORS, MULTIFAMILY HUBs</p>	<p>Series and Series Number: MATERIALS RELEASE NO: 1286e (Supersedes issue dated February 10, 2015)</p>
	<p>ISSUE DATE March 30, 2021</p>
	<p>REVIEW DATE March 30, 2024</p>
<p>SUBJECT: 1. Product Rapid Floor® and Gyp-Crete® Underlayment Systems</p> <p>2. Name and address of Manufacturer Maxxon Corporation 920 Hamel Road P. O. Box 253 Hamel, MN 55340</p>	

Data on the nonstandard product described herein have been reviewed by the Department of Housing and Urban Development (HUD) and determination has been made that it is considered suitable from a technical standpoint for the use indicated herein. This Release does not purport to establish a comparative quality or value rating for this product as compared to standard products normally used in the same manner.

This Materials Release cannot be used as an indication of endorsement or approval by HUD of the described product, and any statement or representation, however made, indicating such approval or endorsement by HUD is unauthorized. See Code 18, U.S.C. 709.

Any reproduction of this Release must be in its entirety.

USE:

Interior floor underlayment for use under a wearing course of carpet, tile, or other approved floor coverings

DESCRIPTION:

The Rapid Floor® and Gyp-Crete® underlayment systems are a nonstructural gypsum/concrete floor fill used on plywood, oriented strand board (OSB), precast concrete planks, and concrete floors and covered with carpet, tile or other approved finish floor coverings.

MATERIALS:

Rapid Floor[®] and Gyp-Crete[®] underlayment systems are made of a minimum of 90% calcinated gypsum as specified in ASTM C 28 (Standard Specification for Gypsum Plasters), and a maximum of 10% by weight of Type I/II Portland cement as specified in ASTM C 150 (Standard Specification for Portland Cement). Sand shall be washed mason, plaster or mortar sand. Sand shall be 1/16" or less in sieve size. The water shall be potable and free of impurities.

All materials shall be provided by the Maxxon Corporation and the authorized contractor.

REQUIREMENTS:

The structural floor system shall support a design live load with a deflection limit of L/360. The subfloor may be plywood, oriented strand board (OSB), concrete or precast concrete planks. Plywood and OSB shall meet the requirements of Product Standard PS 1-95 "Construction and Industrial Plywood." All panels shall meet the span rating requirements of Table 1 shown on this page. The minimum floor underlayment thickness shall be in accordance with Table 1 (below), except that the underlayment placed on concrete or precast concrete may be a minimum of 1/2."

Table 1

Support Spacing (in.)	Span Rating (in.)	Minimum Underlayment Floor Thickness (in.)
16	32/16	3/4
19.25	40/20	3/4
24	48/24	1

Rapid Floor[®] and Gyp-Crete[®] underlayment systems shall meet the strength and density requirements of Table 2 (below).

Table 2

Product	Mix Design	Minimum Density (pcf)	Minimum Compressive Strength (psi)
Rapid Floor	2.1	100	1200
Rapid Floor Plus	2.1	110	1650
Rapid Floor Plus	1.8	110	1850
Rapid Floor Plus	1.4	110	2100
Gyp-Crete	2.1	100	1200
Gyp-Crete 2000	2.1	110	1650
Gyp-Crete 2000	1.8	110	1850
Gyp-Crete 2000	1.4	110	2100

INSTALLATION:

The Rapid Floor[®] and Gyp-Crete[®] underlayment systems shall be installed by contractors authorized by the Maxxon Corporation and be in strict compliance with the manufacturer's printed specifications. The mixing and pumping equipment shall be approved by the Maxxon Corporation. The underlayment materials shall be provided by the Maxxon Corporation.

1. **Subfloor**

The subfloor shall be structurally sound, broom clean, and free of mud, oil, grease, or other contaminants. To prevent leakage, all cracks and voids shall be filled with a quick setting topping or caulking compound.

2. **Priming**

The Maxxon Floor sealer shall be applied to porous wood or concrete floors. The sealer shall be allowed to film over before applying the Maxxon Floor primer. The primer shall be applied at the rate specified. A second coat of primer shall be applied if the primer has been allowed to dry for more than 24 hours before the application of the Rapid Floor[®] or Gyp-Crete[®] underlayment. Nonporous wood or concrete floors do not require a sealer.

3. Gypsum Underlayment

Before, during and after installation of Rapid Floor[®] or Gyp-Crete[®] underlayment, the building interior shall be maintained at a temperature above 50° until the structural floor and the subfloor temperatures are stabilized. After installation, adequate ventilation shall be provided to rapidly remove the moisture from the area until underlayment is dry. Under the above conditions, 4-6 days is usually an adequate drying time. To test for dryness, tape a 24" x 24" section of plastic film to the surface of the Rapid Floor[®] or Gyp-Crete[®] underlayment system on a daily basis. If after 48 to 72 hours no condensation occurs on the plastic film, the Rapid Floor[®] or Gyp-Crete[®] underlayment is considered to be dry. The floor finish may then be installed.

LIMITATIONS:

The underlayment is for above grade interior use. The underlayment shall not be used in contact with metal door jambs or metal decks. The underlayment requires a finish floor covering to protect it from abrasion.

STORAGE AND HANDLING:

All materials shall be delivered in their original unopened packages and stored in an enclosed shelter to provide protection from damage and exposure to the elements. Damaged or deteriorated materials shall not be used.

QUALITY ASSURANCE:

Test cubes shall be taken by the approved applicator at each installation. A minimum of two (2) sets of cubes per job and one (1) set per 3,000 sq. ft. of underlayment shall be taken. Density and compressive strength shall be tested in accordance with ASTM C 472, as modified by Maxxon Corporation. A copy of the test results shall be given to the owner.

LABELING:

Each bag of Rapid Floor[®] or Gyp-Crete[®] materials shall be labeled with the following information:

Maxxon Corporation
920 Hamel Road
Hamel, MN 55340
Product designation
Evaluation report number (MR 1286e)
Quality control agency name and / or trademark

MANUFACTURING PLANTS:

The products covered under this MR will be produced at the following plants:

GP Industrial Plasters LLC
11401 US Hwy
North Las Vegas, NV 89165
Attn: Bob Cyphers
(702) 643-8100

GP Industrial Plasters LLC
2127 Highway 77
Blue Rapids, KS 66411
Attn: Brett Hanson
785-363-7767

GP Industrial Plasters LLC
1101 S. Front Street
Camden, NJ 08103
Attn: Robert Christensen
(856) 963-6931

The contact person for all matters concerning this MR shall be:

Erik Holmgreen
VP of Research and Development
920 Hamel Road
Hamel, MN 55340
PH: (763) 203-5407
Email: EHolmgreen@maxxon.com

WARRANTY:

The Maxxon Corporation warrants this product against defects due to materials or workmanship for a period of five (5) years. Maxxon Corporation shall make allowance toward the restoration, repair or replacement of the defective material. The "Maxxon Rapid Floor[®] or Gyp-Crete[®] Underlayment" covered by this Materials Release (MR) shall be installed by the Maxxon Corporation, or an agent of Maxxon Corporation whose personnel have been trained by Maxxon Corporation.

Maxxon Corporation shall not be responsible for any defects or damage due to misuse, or damage resulting from fire or natural catastrophes such as floods or tornados.

MANUFACTURER'S RESPONSIBILITIES:

Issuance of this MR commits the manufacturer to fulfill, at a minimum, the following:

1. Produce, label and certify the material, product or system in strict accordance with the terms of this MR.

2. Provide necessary corrective action in a timely manner for all cases of justified complaint, poor performance or failure reported by HUD.
3. When requested, provide the Office of Manufactured Housing Programs, HUD Headquarters with a representative list of properties in which the material, product or system has been used, including complete addresses or descriptions of locations, and dates of installation.
4. Inform HUD in advance of changes in production facilities, methods, design of the product, company name, ownership or mailing address.

EVALUATION:

This Materials Release shall be valid for a period of three years from the date of initial issuance or most recent renewal or revision, whichever is later. The holder of this Materials Release shall apply for renewal or revision 90 days prior to the Review Date printed on this Materials Release. Submittals for renewal or revision shall be sent to:

U.S. Department of Housing and Urban Development
Office of Manufactured Housing Programs
451 Seventh Street, SW, Room 9170
Washington, DC 20410-8000

Appropriate user fee(s) for the TSP program can be submitted through the Pay.gov website at <https://pay.gov/public/form/start/73881741>.

The holder of this Materials Release may apply for revision at any time prior to the Review Date. Minor revisions may be in the form of a supplement to the Materials Release.

If the Department determines that a proposed renewal or supplement constitutes a revision, the appropriate user fee for a revision will need to be submitted in accordance with 24 CFR § 200.934 User fee system for the technical suitability of products program, and the current user fee schedule.

CANCELLATION:

Failure to apply for a renewal or revision shall constitute a basis for cancellation of the Materials Release. HUD will notify the manufacturer that the Materials Release may be canceled when:

1. Conditions under which the document was issued have changed so as to affect production of, or to compromise the integrity of the accepted material, product, or system;
2. The manufacturer has changed its organizational form without notifying HUD; or,

3. The manufacturer has not complied with responsibilities it assumed as a condition of HUD's acceptance.

However, before cancellation, HUD will give the manufacturer a written notice of the specific reasons for cancellation, and the opportunity to present views on why the Materials Release should not be canceled. No refund of fees will be made on a canceled document.

This Materials Release is issued solely for the captioned firm and is not transferable to any person or successor entity.
