



Guide Specifications

Gypsum Cementitious Underlayment

Recommended Specification for Maxxon® Floor Underlayment over Acousti-Mat® II Sound Deadening Pad with Maxxon® Crack Suppression Mat (CSM)

This guide specification must be carefully reviewed and edited by the Architect or Engineer to meet the requirements of the project. Coordinate this section with other specification sections and the drawings.

This product may be specified under several different sections, depending on applications including; Sheathing (06 16 00), Underlayment (06 16 26) and Acoustical Underlayment (06 16 29). Sound Control Matting may also be specified as part of the topping underlayment specifications including; Concrete Topping (03 53 00), Emery-Aggregate Concrete Topping (03 53 13), Iron-Aggregate Concrete Topping (03 53 16), Cast Underlayment (03 54 00), Gypsum Cement Underlayment (03 54 13) and Hydraulic Cement Underlayment (03 54 16).

Part I — General

1.01 Summary

- A. This is the recommended specification for Maxxon Underlayment over Acousti-Mat II sound deadening pad with Maxxon Crack Suppression Mat (CSM).

1.02 Section Includes

- A. Maxxon Underlayment gypsum cement
- B. Acousti-Mat II
- C. Maxxon Floor Primer
- D. Maxxon Overspray
- E. Maxxon Crack Suppression Mat (CSM)

1.03 Quality Assurance

- A. Maxxon Underlayment Installer's Qualifications — Installation of Maxxon Underlayment shall be by an applicator authorized by the Maxxon Corporation using Maxxon approved mixing and pumping equipment.
- B. Acousti-Mat II Installer's Qualifications — Installation of Acousti-Mat II shall be by an applicator authorized by the Maxxon Corporation.

1.04 Delivery, Storage and Handling

- A. General Requirements — Materials shall be delivered in their original, unopened packages and protected from exposure to the elements. Damaged or deteriorated materials shall be removed from the premises.

1.05 Site Conditions

- A. Environmental Requirements — Before, during and after installation of Maxxon Underlayment and Acousti-Mat II, building interior shall be enclosed and maintained at a temperature above 50°F (10°C).

Part II — Products

2.01 Materials

- A. Gypsum Cement — Maxxon Underlayment gypsum cement as manufactured by the Maxxon Corporation, Hamel, MN. All others must receive prior approval.
- B. Sound Deadening Pad — Acousti-Mat II as manufactured by the Maxxon Corporation, Hamel, MN.
- C. Sand Aggregate — Sand shall be 1/8" (3 mm) or less, washed masonry or plaster sand, meeting requirements of Maxxon Corporation Sand Specifications 101.
- D. Mix Water — Potable, free from impurities
- E. Subfloor Primer — Maxxon Floor Primer
- F. Sealer — Maxxon Overspray
- G. Mesh reinforcement — Maxxon Crack Suppression Mat (CSM).

2.02 Mix Designs

- A. General Requirements — Mix proportions and methods shall be in strict accordance with product manufacturer recommendations.

Part III — Execution

3.01 Preparation

- A. Condition and Cleaning of Subfloor — Subfloor shall be structurally sound. General Contractor shall clean subfloor to remove mud, oil, grease and other contaminating factors before the arrival of the Maxxon Underlayment crew.
- B. Leak Prevention — Fill cracks and voids with a quick setting patching or caulking material where leakage of Maxxon Underlayment could occur.
- C. Expansion Joints — Allow joints to continue through the Maxxon Underlayment at the same width.

3.02 Application of Acousti-Mat II

- A. Installation of Acousti-Mat II — Install Acousti-Mat II as recommended by the Maxxon Corporation.
- B. Installation of Maxxon Crack Suppression Mat (CSM) — Install Maxxon Crack Suppression Mat (CSM) as recommended by the Maxxon Corporation.

3.03 Application of Cementitious Flooring

- A. Scheduling — Application of Maxxon Underlayment shall not begin until the building is enclosed, including roof, windows, doors and other fenestration. Install after drywall installation unless tenant finish requirements identify partitioning after the pour. Schedule the Acousti-Mat II sound control system as late as possible in the construction cycle.
- B. Priming Maxxon Crack Suppression Mat (CSM) — Prime Maxxon Crack Suppression Mat (CSM) using the Maxxon Floor Primer to bond the Maxxon Underlayment to the mat.
- C. Maxxon Underlayment Application — Place Maxxon Underlayment $\frac{3}{4}$ " (25 mm) thick over loosely laid Maxxon CSM. The reinforcement mesh must be butted tight at all seams. The minimum thickness of Maxxon Underlayment over the Acousti-Mat II and reinforcement mesh is $\frac{3}{4}$ " (25 mm). Spread and screed the Maxxon Underlayment to a smooth surface.
- D. Drying — General Contractor shall provide continuous ventilation and adequate heat to rapidly remove moisture from the area until the Maxxon Underlayment is dry. General Contractor shall provide mechanical ventilation if necessary. Under the above conditions, for $\frac{3}{4}$ " inch thick (25 mm) Maxxon Underlayment, 7-10 days is usually adequate drying time. To test for dryness, tape a 24 inch by 24 inch (609 mm by 609 mm) section of plastic or a high density rubber mat to the surface of the underlayment. After 48-72 hours, if no condensation occurs, the underlayment shall be considered dry. Perform dryness test 5-7 days after pour.

3.04 Preparation for Installation of Glue Down Floor Goods

- A. Sealing — Seal all areas that receive glue down floor goods with Maxxon Overspray according to the Maxxon Corporation's specifications. Any floor areas where the surface has been damaged shall be cleaned and sealed regardless of floor covering to be used. Where floor goods manufacturers require special adhesive or installation systems, their requirements supersede these recommendations.
- B. Floor Goods Procedures — See Maxxon Corporation's "Procedures for Attaching Finished Floor Goods to Maxxon Underlayments" brochure for guidelines for installing finished floor goods. This procedure is not a warranty and is to be used as a guideline only.

3.05 Field Quality Control

- A. Slump Test — Maxxon Underlayment mix shall be tested for slump as it's being pumped using a 2" by 4" (50 mm by 101 mm) cylinder resulting in a patty size of 8" (203 mm) plus or minus 1 inch (25 mm) diameter.
- B. Field Samples — At least one set of 3 molded cube samples shall be taken from each day's pour during the Maxxon Underlayment application. Cubes shall be tested as recommended by the Maxxon Corporation in accordance with ASTM C 472. Test results shall be available to architect and/or contractor upon request from applicator.

3.06 Protection

- A. Protection From Heavy Loads — During construction, place temporary wood planking over Maxxon Underlayment wherever it will be subject to heavy wheeled or concentrated loads.