

**THE SOLUTION FOR IMPACT SOUND CONTROL IN CONCRETE CONSTRUCTION**

# ACOUSTI-MAT LP

**A revolutionary sound control advancement for high-rise construction — now you can replace floor goods without replacing the sound mat!**



Until now, impact sound control in concrete high-rise construction only lasted as long as the floor goods. When the floor goods are changed, which happens often in residential complexes, the sound mats placed on top of the concrete floor are damaged and the building owner must then decide to either:

- replace the sound mat, adding to project cost, or
- ignore the situation, likely resulting in noise complaints from the tenants as well as problems that can be even more costly to resolve.

**Now there's a sound control solution** — the Acousti-Mat LP (Low Profile) system can meet the 50 IIC sound control rating required by the International Building Code, before any floor goods are installed. The  $< \frac{1}{16}$ " Acousti-Mat LP is attached to the concrete subfloor and then topped with a Maxxon



Underlayment, permanently encasing the Acousti-Mat LP in the underlayment. So when floor goods are changed, the sound control system remains intact. The underlayment can even level the floor to meet the 1/8" in 10 feet levelness criteria required for laminate wood floors.

For new or renovated concrete floors, **Acousti-Mat LP is the low profile sound control solution** that features:

- Fast, easy installation
- Delta IIC rating of 19 — an approximate **75% reduction in impact noise** on concrete floor systems
- Floor leveling for ease of floor goods installation
- Sound control that stays in place under a Maxxon Underlayment when floor goods are removed!

**ACOUSTI-MAT<sup>®</sup> LP**  
Low Profile

From Maxxon<sup>®</sup> — The Leader in Floor/Ceiling Sound Control Systems

# ACOUSTI-MAT® LP INSTALLATION

step 1



## Product Support:

Additional product literature, CSI formatted specifications and information are available upon request. For special applications, contact Maxxon Corporation.

**Warranty:** Maxxon Corporation warrants Acousti-Mat® LP 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 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 Acousti-Mat® LP. Because the Maxxon Corporation does not perform the actual installation, it can not be held responsible for the results of the application. Maxxon Corporation specifically disclaims problems that occur due to weather conditions, moisture, 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 in connection with the sale and installation of Acousti-Mat® LP.

step 2



If Acousti-Mat® LP is installed over a Maxxon® Underlayment, the underlayment must be sealed prior to adhesive application using Maxxon Overspray or Maxxon Acrylic. See Maxxon Procedures Guide for additional details.

Acousti-Mat LP adhesive is rolled out over clean and contaminant free subfloor or underlayment. Over rough concrete surfaces, a slurry of Maxxon Underlayment should be utilized, or the concrete can be skim coated prior to adhesive application.

step 3



Acousti-Mat LP is then placed into wet adhesive or slurry. Seams should be butt jointed or overlapped, depending upon the topping application.

step 4



Once adhesive sets, back roll Acousti-Mat LP to ensure that 100% surface contact is achieved with adhesive or slurry application.

step 5

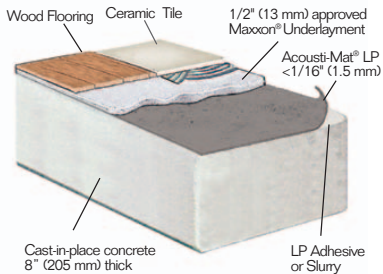


Isolation strips are installed around all walls, columns, and floor penetrations to eliminate flanking paths. Acousti-Mat LP Isolation Strips can also be utilized to cover any exposed subfloor or underlayment between seams in the Acousti-Mat LP.

step 6



Acousti-Mat LP is topped with an approved Maxxon Underlayment. For uniform depth and a smooth surface, installers use a screed to finish the underlayment surface. In as little as two hours after the underlayment has been poured, the floor is hard enough to accommodate foot traffic.



## ACOUSTI-MAT® LP BENEFITS

- The low profile, sound control solution for concrete.
- Achieves a Delta IIC of 19 — approximately a 75% reduction in impact noise on concrete floor systems.
- Can also be used over a Maxxon Underlayment in wood or steel frame construction.

## TECHNICAL DATA

### ACOUSTI-MAT® LP

#### Description

Material composition: blend of polymeric fibers  
 Thickness, nominal: <1/16" (45 mils)  
 Basis Weight: 175 g/m<sup>2</sup>  
 Color: dark gray

**Sound Test Results** See below.

### GYPSUM UNDERLAYMENT DEPTH

| Construction Type | Underlayment Depth |
|-------------------|--------------------|
| Concrete          | 1/2"               |
| Wood Frame        | 3/4"               |
| Steel Deck        | 1"                 |

**ACOUSTI-MAT® LP**  
 Low Profile

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### SOUND TEST INFORMATION

F-IIC (Field Impact Insulation Class) sound tests were performed in accordance with ASTM E 1007 and E 989. F-STC (Field Sound Transmission Class) sound tests were performed in accordance with ASTM E 336 and E 413. Actual tests are available upon request. Maxxon Underlayments and Acousti-Mat/Enkasonic are but two components of an effective sound control system. No sound control system is better than its weakest component. Care must be taken in the selection and installation of all components of construction to assure the ultimate designed acoustical performance.

| SOUND TEST RESULTS                |                        |            |                   |                 |                 |                    |              |
|-----------------------------------|------------------------|------------|-------------------|-----------------|-----------------|--------------------|--------------|
| Floor System                      | Topping                | Insulation | Resilient Channel | Ceiling Drywall | Floor Coverings | Rating             | Test Numbers |
| 8" Concrete (203 mm)              | 1/2" (12.7 mm) Maxxon* | No         | Yes               | 5/8" (16mm)     | None            | 57 F-IIC           | 0677973      |
|                                   | 1/2" (12.7 mm) Maxxon* | No         | Yes               | 5/8" (16mm)     | Wood            | 60 F-IIC           | 0677973      |
| Bare Concrete, No AM LP (control) | None                   | No         | Yes               | 5/8" (16mm)     | None            | 42 F-IIC, 62 F-STC | 0677973      |

\* Approved Maxxon Underlayment.