

DESCRIPTION

AD-844 MS is an hybrid-polymer-based wood-flooring adhesive. It provides excellent sound-reduction and moisture-controlling properties. Therefore, it provides a superior bond as well as protecting wood flooring from moisture vapour emissions coming through concrete slabs in a single application.

WHERE TO USE

- **Residential, indoor:** rental apartments, condominiums, homes
- **Commercial, indoor:** OCE buildings, hotel rooms and hallways, restaurant and dining areas
- **Heavy commercial, indoor:** hotel lobbies, convention centers, airports, department stores
- **Institutional, indoor:** hospitals, schools, universities, libraries, government buildings

SUITABLE SUBSTRATES

A. DIRECT BONDING METHOD

- Exterior-grade plywood and other approved wood underlayments (according to flooring manufacturer recommendations).
- Concrete and properly prepared cement terrazzo.
- Existing, properly prepared ceramic tile.
- Cement-based self-leveling underlayments and patching compounds.
- Properly prepared, primed gypsum underlayments that meet the requirements for compressive strength according to ASTM F2419.
- Radiant-heat systems that have been properly installed.

B. MOISTURE CONTROL METHOD

- Concrete and properly prepared cement terrazzo.
- Existing, properly prepared ceramic tile.
- Exterior-approved, cement-based patching compounds.

Notes: Always read the manufacturer's instructions to ensure the compatibility of products used.

SUBSTRATE PREPARATION

- All substrates must be structurally sound, dry, solid and stable.
- Substrate should be clean and free of dust, dirt, oil, grease, paint, curing agents, concrete sealers, loosely bonded toppings, loose particles, old adhesive residues, and any other substance or condition that may prevent or reduce adhesion.
- Substrates must be flat to 3/16" in a 10-foot span (4,5 mm in a 3 meter span). Refer to wood flooring manufacturer's guidelines.
- Concrete and cement-based underlayments and patches must be fully cured and free of any hydrostatic and/or moisture problems.
- Use anhydrous calcium chloride tests to determine moisture vapor emission rates (MVER's) according to ASTM F1869 or use moisture probe tests to determine RH according to ASTM F2170.
- Concrete slabs exceeding 6,80 kg (15 lbs) MVER or 85% RH should be treated with a moisture vapour reduction product other than AD-844 MS adhesive.
- Use a moisture meter to check the RH of the wood flooring, surface of the substrate, and general jobsite area. Follow the flooring manufacturer's guidelines.
- In case of doubt, do an adhesion test.

PHYSICAL AND CHEMICAL PROPERTIES

Polymer type	Hybrid polymer
Percentage of solids	100 %
VOC	8 g/L
Trowelability	Very easy
Open time	May vary depending on environmental conditions (humidity and temperature)
Workable temperature	50°F - 90°F (10°C - 32°C)
Flashpoint	200°F (> 93°C)
Odor	Light mint
Density	13,85 lbs/US gal. (1,66 g/mL)
Viscosity	80 000 à 200 000 cps
Consistency	Smooth paste
Color	White
R factor	0,439
Shelflife	12 months when stored in original sealed packaging at 73°F (23°C)
Freeze stability	Keep from freezing*
Storage conditions	50°F - 90°F (10°C - 32°C)
Avoid traffic	12 hours for light traffic, 24 hours for heavy traffic
Size	3.96 US gal. (15 L)

*Protect pails against freezing during transportation and storage. On site, store in a heated area and deliver all materials at least 24 hours before starting work.

MIXING

Ready to use; no mixing necessary

Note: Choose all appropriate safety equipment before use. Refer to MSDS for more information or on our website www.acousti-tech.com or call our Customer Service at 1-888-434-9317.

PRODUCT APPLICATION

A. DIRECT BONDING METHOD

1. Read and understand all installation instructions thoroughly before installation.
2. Select the appropriate notched trowel for the type of flooring installed (see "Coverage" section).
3. Spread adhesive evenly over the subfloor, keeping the trowel at a 45° angle to the subfloor.
4. Only apply as much as can be installed within 45 minutes.
5. Install wood flooring in strict accordance to flooring manufacturer's written instructions.
6. Proper adhesive transfer to the backing of the membrane (minimum 95 % of the surface) should be confirmed periodically by lifting the membrane.
7. To ensure proper transfer of the adhesive, roll the membrane in both directions immediately after installation with a 75 to 100 lbs roller.
8. The flooring can be installed immediately after insertion of the membrane.
9. Protect the installation of light traffic at least 12 hours, heavy traffic at least 24 hours.

B. MOISTURE CONTROL METHOD

1. Read and understand all installation instructions thoroughly before installation.
2. Choose the appropriate trowel adaptor and attach it to a standard 11" (28 cm) trowel.
3. Using the trowel's flat side, key AD-844 MS into the subfloor, creating a smooth void-free surface.
4. Once the adhesive has been keyed in, immediately spread AD-844 MS using the special clip-on trowel attachment. Trowel ridge lines should be perpendicular to the length of the wood planks. Hold the trowel at a 60° to 90° angle to the subfloor, making sure that the subfloor is covered 100 % with adhesive and that no void spots appear other than the "valley bottoms" created by the trowel. These areas will fill in as the wood is installed.
5. Only apply as much as can be installed within 45 minutes.
6. Protect the installation of light traffic at least 12 hours, heavy traffic at least 24 hours.

RESTRICTIONS

- Do not install over any substrates containing asbestos.
- For interior installations only.
- Do not apply over any adhesive residues including cutback adhesive.
- Do not install in areas not recommended by the wood flooring manufacturer.
- Do not install as an adhesive when the moisture vapour emission rate exceeds 3 lbs per 1,000 sq.ft. (1,36 kg per 92,9 m²) per 24 hours, when using the anhydrous calcium chloride test (ASTM F1869). For moisture vapour emission rate between 3 to 15 lbs per 1000 sq.ft. (1,36 to 6,80 kg per 92,9 m²) per 24 hours, install using the Moisture Control Method (see the section "Product Application" for moisture control below).
- Do not install as an adhesive when the relative humidity (RH) of the concrete slab exceeds 75 % (ASTM F2170). For an RH between 75 % and 85 %, install using the Moisture Control Method.
- Use only when the substrate temperature is between 50°F and 90°F (10°C and 32°C), or when the ambient relative humidity is between 20 % and 80 %.
- Do not use as a leveling, patching or subfloor repair material.

CLEANING

Immediately clean surfaces covered with adhesive with hot water or AD-Remover wipes when fresh and with AD-Remover wipes when dry.

STORAGE

Hermetically close container after use. Store in a cool, dry area. Keep from freezing. On site, store product in a dry and heated room for at least 24 hours before use. If frozen, turn the container up and down and allow to temper at least 24 hours at room temperature about 70°F (20°C).

NOTE: Ground cover installation can be done immediately after the application of membrane AcoustiTECH™.

Technical data sheet

AD-844 MS adhesive

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AD-844 MS

EMERGENCY AND FIRST AID TREATMENT

HANDLING PROCEDURES

Wear safety glasses and waterproof gloves.

FIRST AID TREATMENT – EYES

Flush with water for 15 minutes while holding eyelids open.

SKIN

Wash with soap and water.

INGESTION

Non-toxic. Do not induce vomiting. Seek medical attention or contact poison control center immediately for any continued problems.

KEEP OUT OF THE REACH OF CHILDREN AND PETS

In the event of a chemical emergency, spill, leak, exposure or accident, call - DAY OR NIGHT -

IN THE U.S.A. AND CANADA: CANUTEC 1-613-996-6666.

LIABILITY NOTICE

Before using, user must learn and ensure they are suitable for its intended use and user alone assumes all risks and liabilities of any nature whatsoever in this regard. ANY CLAIM SHALL BE DEEMED WAIVED UNLESS NOTICE IS WRITTEN TO US WITHIN FIFTEEN (15) DAYS FOLLOWING THE DISCOVERY OF THE DEFECT OR THE DATE ON WHICH SUCH FAILURE WAS DISCOVERED.

COVERAGE* - SUGGESTED TROWELS***

Adhesives		To glue down wood on membrane or substrate						Floor covering features	To glue AcoustiTECH™ membranes			
Type	Size	Trowel	Shape	Min. coverage on membrane		Min. coverage on plywood/concrete		Wood features Width and Length	Trowel	Shape	Min. coverage on plywood/concrete	
				sq.ft./gal	sq.ft./pail	sq.ft./gal	sq.ft./pail				sq.ft./gal	sq.ft./pail
Adhesive-Adhésif AD-844 MS	3,96 gal / 15 L	1/8" x 1/8" x 1/8"		65-75	260-300	85-100	340-400	up to 4" wide and 4' long	1/8" x 1/8" x 1/8"		85-100	340-400
		5/32" x 3/16"		40-50	160-200	45-55	175-220	up to 6" wide and 7' long				
		1/8" x 1/4" x 1/4"		35-45	135-175	40-50	160-200	all width and up to 9' long				
		** 1/8" x 1/8" x 1/8" x 1/16"		NR	NR	30-40	120-160	Engineered hardwood, all width	** 1/8" x 1/8" x 1/8" x 1/16"		30-40	120-160
		** 3/8" x 3/16" x 3/8" x 1/16"		NR	NR	30-40	120-160	Solid hardwood, all width	** 3/8" x 3/16" x 3/8" x 1/16"		30-40	120-160

Notes:

** Trowel adapter when using the adhesive as a vapor barrier and glue.

- The sq.ft./gal flow is the minimum flow requirements for the holding capacity of the assembly recommended. When using a higher flow rate, make sure you do not stain the floor with adhesive that could have leaked.
- Do not use the roller mat to roll the membrane when using adapters (in a vapor barrier application).
- NR: Not recommended.
- Trowel : Width of the notches at the base x Depth of notch x Frequency (Distance between notches).

In case of doubt as to the choice of adhesive or trowel, do not hesitate to contact our Customer Service toll free at 1 888 434-9317 or by e-mail service@acousti-tech.com. It is possible that an updated version of this document is available at acousti-tech.com. In case of discrepancy, the latter always takes precedence over the printed document.