

DESCRIPTION

AD-316 is a high performance rubber based adhesive without solvent. Specially designed for glued membrane, laminate or wood floor on concrete or wood subfloor or over AcoustiTECH™ acoustical membranes.

WHERE TO USE

- **Interior residential:** rental apartments, condominiums, homes
- **Interior light commercial:** general office areas, hotel rooms, small retail

SUITABLE SUBSTRATES

- Exterior-grade plywood, Group 1, CC type and OSB
- Other approved wood underlayments (per manufacturer recommendations)
- Concrete and cement terrazzo properly prepared
- Existing ceramic tile properly prepared*
- Cement-based self-leveling underlayments and patching compounds*
- Radiant-heat systems that have been properly installed

*Consult Finitec Canada's Customer Service Department for installation recommendations regarding substrates and conditions not listed.

SUBSTRATES PREPARATION

- All substrates must be structurally healthy, 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. All surfaces must be leveled, even, at and smooth.
- Surfaces must be flat to a tolerance level of 4.5 mm by 3 meters (3/16" by 10 feet). (Refer to wood flooring manufacturer directives.)
- Concrete, underlayments and patching cement products should be fully ripened and free from hydrostatic pressure or humidity problems.
- Use anhydrous calcium chloride tests to determine emission rate of water vapor from concrete according to ASTM F1869 or use moisture probe tests to determine RH according to ASTM F2170. The concrete slabs that water vapour emission rate exceeds 1.36 kg (3 lbs) should be treated with vapour barrier product. (Follow the manufacturer's recommendation.) (Refer to the water vapour manufacturer's data sheets for information on this type of product.)
- Use a moisture meter to check the relative humidity of wood coating, substrate surface and area full of construction. (Follow the manufacturer's recommendation.)
- In case of doubt, do an adhesion test.

EXPANSION AND CONTROL JOINTS

- Anticipate expansion and control joints to the specified locations
- Do not apply adhesive on expansion joints
- Cut the membrane on each side of expansion joints

PHYSICAL AND CHEMICAL PROPERTIES

Polymer type	SBR emulsion polymer
Percentage of solids	80 % to 82 %
VOC	18 g/L
pH	9.25
Trowelability	Easy
Open time	May vary depending on environmental conditions (humidity and temperature)
Workable temperature	50°F - 90°F (10°C - 32°C)
Drying time	24 hours (curing time)
Flashpoint	> 212°F (> 100°C)
Odor	Low
Density	10 lbs/US gal. (1.2 g/mL)
Viscosity	120 000 to 160 000 cps
Consistency	Buttery
Color	Light Tan
R factor	0,439
Shelflife	12 months when stored in original packaging at 73°F (23°C)
Freeze stability	Keep from freezing*
Storage conditions	40°F - 100°F (4°C - 38°C)
Avoid traffic	24 hours for light traffic, 72 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 1-888-838-4449.

PRODUCT APPLICATION

1. Read and understand all instructions thoroughly before proceeding to installation.
2. Select the appropriate notched trowel (see "Coverage" section).
3. Spread adhesive evenly over the subfloor, keeping the trowel at a 45° angle to the subfloor.
4. Apply adhesive that can be covered within 1 hour.
5. Install membrane in accordance with the manufacturer's recommendations, while the adhesive is fresh.
6. Proper adhesive transfer to the backing of the membrane (minimum 95% of the surface) should be conformed periodically by lifting the membrane.

7. To ensure proper transfer of the adhesive, pass a roller of 75 to 100 lbs on the length and width of the floor surface.
8. The flooring can be installed immediately after installation of the membrane.
9. Protect the installation of light traffic at least 24 hours, heavy traffic at least 72 hours.

RESTRICTIONS

- Do not install over any substrates containing asbestos
- For interior installations only
- Recommended to install hardwood flooring
- Do not apply over any adhesive residues including cutback adhesive
- Do not install when the moisture vapor emission rate (MVER) 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).
- Do not install when relative humidity (RH) of concrete slabs exceeds 75 % (ASTM F2170).
- Use only when the substrate temperature is between 50°F and 90°F (10°C and 32°C).
- Do not install with a solid floor or bamboo

CLEANING

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

STORAGE

Close container after use. Store in a cool, dry area. Keep from freezing. If frozen, allow to thaw completely at room temperature 68°F (20°C) for 24 hours and stir before using. On site, store product in a dry and heated room for at least 24 hours before use.

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 soapy water.

INGESTION

Non-toxic. Do not induce vomiting. Seek medical attention or contact poison control center immediately for any persistent 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 Maximum thickness and width	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-316	3,96 gal / 15 L	3/16" x 1/8" x 1/8"		45-55	180-220	50-60	200-240	≤ 1/2" Engineered, all width	1/8" x 1/8" x 1/8"		75-85	300-340

Notes:

- 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 tape that would cause adhesive to leak.
 - 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 1 888 838-4449 or by e-mail service@finitec-inc.com.
It is possible that an updated version of this document is available at www.acousti-tech.com. In case of discrepancy, the latter always takes precedence over the printed document.