

### DESCRIPTION

AD-164 is a high performance acrylic based adhesive designed specifically for installing solid vinyl flooring. With its strong, durable, moisture-resistant and alkali-resistant bond, this adhesive is ideal for commercial and institutional applications. AD-164 has an excellent open time, develops strength quickly, performs well under rolling loads and resists indentation.

### WHERE TO USE

- **Interior residential:** rental apartments, condominiums, homes
- **Interior commercial:** general office areas, hotel rooms, cafeterias
- **Interior heavy commercial:** shopping malls, grocery stores, department stores
- **Interior institutional:** hospitals, schools, universities, libraries, government buildings

### SUITABLE SUBSTRATES

- CSA/APA underlayment grade plywood
- Other approved wood underlayments (per manufacturer recommendations)
- Concrete and cement terrazzo properly prepared
- Cement-based self-leveling underlayments and patching compounds\*
- Embossing levelers applied over existing, properly prepared and fully bonded ceramic tile and fully bonded vinyl composition tile (VCT) - one layer only
- Properly prepared and primed gypsum underlayments that meet the ASTM F2419 requirements for compressive strength
- Radiant-heat systems that have been properly installed and recommended by the vinyl flooring manufacturer

\*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 even, flat and smooth.
- 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 relative humidity (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.)
- Do not install if the moisture vapor emission rate exceeds 5 lbs/1,000 sq.ft. (2,27 kg/92,9 m<sup>2</sup>) per 24 hours when using the anhydrous calcium chloride test. The MVER must be diminishing over time. Do not install when the HR of the concrete slab exceeds 80%. These conditions must be kept constant in time in order to ensure optimal performance.

### PHYSICAL AND CHEMICAL PROPERTIES

<b>Polymer type</b>	Vinyl acrylic
<b>Percentage of solids</b>	55 % to 65 %
<b>VOC</b>	Less than 34 g/L
<b>pH</b>	7 to 9
<b>Trowelability</b>	Easy
<b>Open time</b>	May vary depending on environmental conditions (humidity and temperature)
<b>Workable temperature</b>	50°F - 90°F (10°C - 32°C)
<b>Drying time</b>	24 hours (curing time)
<b>Flashpoint</b>	212°F (> 100°C)
<b>Odor</b>	Low
<b>Density</b>	8.3 lbs per US gal. (3.77 kg per 3.79 L)
<b>Viscosity</b>	120 000 to 170 000 cps
<b>Consistency</b>	Creamy
<b>Color</b>	Off-white
<b>R factor</b>	0,439
<b>Shelflife</b>	12 months when stored in original packaging at 73°F (23°C)
<b>Freeze stability</b>	Keep from freezing*
<b>Storage conditions</b>	40°F - 100°F (4°C - 38°C)
<b>Avoid traffic</b>	24 hours for light traffic, 72 hours for heavy traffic
<b>Size</b>	4 US gal. (15,1 L) and 1 US gal (3.79 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.

- In case of doubt, do an adhesion test.

### MIXING

#### Ready to use; no mixing necessary

Note: Choose all appropriate safety equipment before use. Refer to Safety Data Sheet (SDS) for more information or on our website [www.acousti-tech.com](http://www.acousti-tech.com) or call our Customer Service at 1-888-838-4449.

### PRODUCT APPLICATION

#### A. Single-glued down

1. Read and understand all instructions carefully before installation.
2. Use the appropriate notched trowel (see "Coverage chart")
3. Apply the adhesive evenly over the subfloor, keeping the trowel at a 45° angle to the surface.
4. Apply only the amount that can be installed in 15-30 minutes.
5. Allow the adhesive to dry until the valleys are clear and the trowel ridges are still wet (wet tack). Do not allow the adhesive to turn totally clear.
6. Then, install the vinyl planks or tiles according to the manufacturer's recommendations.
7. Roll immediately slowly with a 75 to 100 lbs (34-45 kg) roller in the direction of the length of the vinyl flooring unless otherwise specified by the manufacturer of vinyl flooring. NOTE: Condition the adhesive, floor covering and subfloor at 50°F–90°F (10°C–32°C) at least 24 hours prior to installation and maintain the same conditions once the installation is completed.
8. Protect the installation of light traffic at least 24 hours, heavy traffic at least 72 hours.

#### B. Double-glued down

1. Read and understand all instructions carefully before installation.
2. Use the appropriate notched trowel (see "Coverage chart").
3. Apply the adhesive evenly over the subfloor, keeping the trowel at a 45° angle to the surface.
4. Apply only the amount that can be installed in 10 minutes.
5. When the adhesive is still fresh/wet, install the AcoustiTECH™ LV membrane printed side up according to the manufacturer's recommendations.
6. Periodically check the adhesive transfer to the backing by lifting the membrane to insure a minimum of 95%.
7. The installation of the vinyl flooring can be done immediately after the installation of the membrane.
8. Use the appropriate notched trowel (see coverage chart).
9. Apply the adhesive evenly over the AcoustiTECH™ LV membrane, keeping the trowel at an angle of 45° to the surface.
10. Apply only the amount that can be installed in 15-30 minutes.
11. Allow the adhesive to dry until the valleys are clear and the trowel ridges are still wet (wet tack). Do not allow the adhesive to turn totally clear.
12. Then, install the vinyl planks or tiles according to the manufacturer's recommendations.
13. Roll slowly with a 75 to 100 lbs (34-45 kg) roller in the direction of the length of the vinyl flooring. NOTE: Be sure to roll every time after 100 sq.ft. has been installed.
14. Protect the installation of light traffic at least 24 hours, heavy traffic at least 72 hours.

### RESTRICTIONS

- For interior installations only
- Do not install over any substrates containing asbestos
- Do not apply over any adhesive residues including cutback adhesive
- Do not use to install nonporous floor coverings over nonporous surfaces
- Do not install when the moisture vapor emission rate (MVER) exceeds 5 lbs per 1,000 sq.ft. (2,27 kg per 92,9 m<sup>2</sup>) per 24 hours, when using the anhydrous calcium chloride test (ASTM F1869).
- Do not install when relative humidity (RH) of concrete slabs exceeds 80 % (ASTM F2170).
- Use only when the substrate temperature is between 50°F and 90°F (10°C and 32°C). These conditions must be kept constant in time in order to ensure optimal performance.

### CLEANING

Immediately clean surfaces covered with adhesive with 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. On site, store product in a dry and heated room for at least 24 hours before use. If frozen, allow to thaw completely at room temperature 70°F (20°C) for 24 hours and stir before using.

**NOTE:** The vinyl flooring installation (planks and tiles) can be done immediately after installing the AcoustiTECH™ LV membrane.

### 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\*\*

Adhesive		To glue down vinyl on membrane or substrate				Vinyl features		To glue AcoustiTECH™ LV membrane				
Type	Size	Trowel	Shape	Min. coverage on membrane		Min. coverage on plywood/concrete		Vinyl - planks and tiles (thickness and type)	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-164	3,79 L / 1 gal	** 1/32" x 1/16" x 1/32"		—	—	175-225	175-225	Single glued-down: Luxury; all type	—	—	—	—
		1/16" x 1/16" x 1/16"		100-120	100-120	—	—	Double glued-down: ≥ 3,2 mm; bevelled edge	** 1/32" x 1/16" x 1/32"		175-225	175-225
	15,1 L / 4 gal	** 1/32" x 1/16" x 1/32"		—	—	175-225	700-900	Single glued-down: Luxury; all type	—	—	—	—
		1/16" x 1/16" x 1/16"		100-120	400-480	—	—	Double glued-down: ≥ 3,2 mm; bevelled edge	** 1/32" x 1/16" x 1/32"		175-225	700-900

#### Notes:

- If the substrate is porous, use a square notched trowel 1/16" x 1/16" x 1/16" (1.5mm x 1.5mm x 1.5mm). The coverage will be then less than the one indicated in the actual document.
- 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](mailto:service@finitec-inc.com).

It is possible that an updated version of this document is available at [www.acousti-tech.com](http://www.acousti-tech.com). In case of discrepancy, the latter always takes precedence over the printed document.