

DESCRIPTION

AD-280 is a professional-quality, acrylic based adhesive specially designed to glue the AcoustiTECH™ CERAMIC membrane. It provides quick and optimal adherence to concrete or wood (plywood or OSB).

WHERE TO USE

- **Residential, indoor:** rental apartments, condominiums, homes.
- **Commercial, indoor:** OCE buildings, hotel rooms and hallways, restaurant and dining areas.
- **Institutional, indoor:** hospitals, schools, universities, libraries, government buildings.

SUITABLE SUBSTRATES

- Exterior grade plywood
- Concrete
- Approved patching compounds and concrete repair products
- Cement-based self-leveling underlayments and patching compounds

SUITABLE SUBSTRATES

- Exterior-grade plywood, Group 1, CC type or OSB.
- Other approved wood underlayments (per manufacturer recommendations).
- Cement-based self-leveling underlayments and patching compounds*.
- Properly prepared and primed gypsum underlayments that meet the ASTM F2419 requirements for compressive strength.
- Properly installed radiant-heat systems.

*Consult AcoustiTECH Innovation Inc's Technical Services Department for installation recommendations regarding substrates and conditions not listed.

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 feet span (4,5 mm in a 3-meter span). Refer to wood-oring 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 emission rate of water vapour from concrete according to ASTM F1869 or use moisture probe tests to determine RH according to ASTM F2170.
- The concrete slabs that water vapor 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.)
- In case of doubt, do an adhesion test

PHYSICAL AND CHEMICAL PROPERTIES

Polymer type	Acrylic
Percentage of solids	68 % to 72 %
VOC	Less than 19 g/L
pH	9 to 10
Trowelability	Easy
Open time	20 to 30 minutes
Workable temperature	50°F - 90°F (10°C - 32°C)
Drying time	24 hours (curing time)
Flashpoint	212°F (> 100°C)
Odor	Rubber
Density	9,85 lbs/US gal. (1,18 g/mL)
Viscosity	60 000 to 120 000 cps
Consistency	Buttery
Color	Light Tan
R factor	0,439
Shelflife	2 years when stored in original packaging at 73°F (23°C)
Freeze/thaw stability	3 cycles at 10°F (-12°C)
Storage conditions	32°F (10°C)
Avoid traffic	24 hours for light traffic,
Size	3,96 US gal. (15 L) and 1,2 US gal. (4,54 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

1. Read all installation instructions thoroughly before installation.
2. Use a 1/8" x 1/8" x 1/8" (3 x 3 x 3 mm) "V" notched trowel.
3. Spread adhesive evenly over the subfloor, keeping the trowel at a 45° angle to the subfloor.
4. For porous substrates, install the acoustical membrane into the adhesive while it is still wet.
5. Roll with a 34 to 45 kg (75 to 100 lbs) roller across the width and length of the flooring surface.
6. You can walk on the membrane after installation.
7. Ceramic can be installed immediately after the installation of adhesive and membrane.

RESTRICTIONS

- Do not install over any substrates containing asbestos.
- Do not use to install nonporous floor coverings over nonporous surfaces.
- Do not apply over any adhesive residues including cutback adhesive.
- Use only when the substrate temperature is between 50°F and 90°F (10°C and 32°C).
- Do not use directly under hardwood floor.

CLEANING

Promptly clean any adhesive smudges from the flooring material's surface with water while the adhesive is still fresh/wet. Clean tools with water while the adhesive is still fresh/wet. Use AD-Remover wipes to clean surface when the adhesive is dry.

STORAGE

Keep from freezing during transportation and storage. On site, store product in a dry and heated room for at least 24 hours before use.

EMERGENCY AND FIRST AID TREATMENT

EMERGENCY AND FIRST AID TREATMENT HANDLING PROCEDURES
Wear safety glasses and waterproof gloves.

FIRST AID TREATMENT – EYES

Flush with water for 15 minutes.

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 ceramic on membrane				Ceramic features	To glue AcoustiTECH™ Ceramic membrane			
Type	Size	Trowel	Shape	Min. coverage on membrane	Min. coverage on plywood / Concrete	Ceramic Minimum thickness and width	Trowel	Shape	Min. coverage on plywood/concrete	
				sq.ft. /gal	sq.ft. /pail				sq.ft. /gal	sq.ft. /pail
Adhesive • Adhésif AD-280	1,2 gal / 4,54 L	LFT mortar + Mapei keracolor grout (or equivalent)				Ceramic tiles ≥ 12" x 12", ≥ 1/4" thick.	1/8" x 1/8" x 1/8"		95-105	115-125
	3,96 gal / 15 L	LFT mortar + Mapei keracolor grout (or equivalent)				Ceramic tiles ≥ 12" x 12", ≥ 1/4" thick.	1/8" x 1/8" x 1/8"		95-105	380-420

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 1 888 434-9317 or by e-mail service@acousti-tech.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.