

DESCRIPTION

AD-532+ is an ultra light high performance, moisture-cured 100 % urethane adhesive with solvent added and low VOC. It is designed to glue engineered wood flooring and AcoustiTECH acoustical membranes. AD-532+ can also be used in elevated subfloor moisture conditions of up to 12 lbs. (5,44 kg) moisture vapor emission rate (MVER) and 95% relative humidity (RH) when a specific installation method and trowel notch configuration are used. AD-532+ is 33 % lighter than the majority of urethane based adhesives and is easy to trowel with excellent trowel-ridge-hold. It provides quick grab, excellent final bond strength and a greater amount of coverage.

WHERE TO USE

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

SUITABLE SUBSTRATES

- Exterior-grade plywood, Group 1, CC type or OSB.
- Other approved wood underlayments (per manufacturer recommendations).
- Concrete and properly prepared cement terrazzo*.
- Existing and properly prepared ceramic tile*.
- 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 Service Department for installation recommendations regarding substrates and conditions not listed

**Consult AcoustiTECH Innovation Inc's Technical Service Department for the recommended primer to be applied prior to proceeding with this type of gypsum substrate installation.

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-ft span (4,5 mm in a 3-m 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 emission rate of water vapor from concrete according to ASTM F1869 or use moisture probe tests to determine RH according to ASTM F2170.
- 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

PHYSICAL AND CHEMICAL PROPERTIES

Polymer type	Polyurethane
Percentage of solids	100 %
VOC	15 g/L
Trowelability	Easy
Pourcentage of transfert required	95 %
Open time	May vary depending on environmental conditions (humidity and temperature) (depending on conditions)
Workable temperature	50°F - 90°F (10°C - 32°C)
Flashpoint	200°F (> 93°C)
Odor	Low
Density	10,5 lbs/US gal. (1,25 g/mL)
Viscosity	131 000 cps
Consistency	Smooth paste
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	50°F - 90°F (10°C - 32°C)
Avoid traffic	12 hours for light traffic, 24 hours for heavy traffic
Size	4 US gal. (15,1 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..

RESTRICTIONS

- Do not install over any substrates containing asbestos.
- For interior installations only.
- Not recommended for flooring designed for nail-down installations only.
- Do not apply over any adhesive residues including cutback adhesive.
- Do not install when the moisture vapour emission rate (MVER) exceeds 5 lbs per 1,000 sq.ft. (2,27 kg per 92,9 m) per 24 hours, when using the anhydrous calcium chloride test (ASTM F1869), unless installed using the moisture-control method and trowel recommendations explained in the "Application" section below. Do not use this method if the MVER exceeds 12 lbs. per 1,000 sq. ft. (5,44 kg per 92,9 m) per 24 hours.
- Do not install when relative humidity of concrete slabs exceeds 80 % (ASTM F2170), unless installed using the moisture-control method and trowel recommendations explained in the "Application" section below. Do not use this method when the RH exceeds 95%.
- Use only when the substrate temperature is between 50°F and 90°F (10°C and 32°C), and when the ambient relative humidity is between 20 % and 80 %.

- Do not install solid wood flooring over any resilient flooring.
- Do not use with vinyl-backed cork and bamboo solid flooring.

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 acousti-tech.com or call our Customer Service at 1-888-434-9317.

APPLICATION

DIRECT-BONDING METHOD

1. Read all installation instructions thoroughly before 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. Only apply as much as can be installed within 45 minutes.
5. Install flooring or AcoustiTECH membrane following manufacturer's recommendations.
6. Periodically conform adhesive transfer to the backing by lifting the flooring material or the AcoustiTECH membrane (minimum 95 % of the surface).
7. Roll the flooring with a 75- to 100-lb. (34,0- to 45,4-kg) roller across the width and length of the flooring surface, unless otherwise specified by the wood flooring or membrane manufacturer.
8. The floor covering can be installed immediately after the AcoustiTECH membrane installation.
9. Protect from light traffic for at least 12 hours, and from heavy traffic for at least 24 hours.

MOISTURE-CONTROL METHOD

1. Read all installation instructions thoroughly before installation.
2. Select the appropriate notched trowel identified as suitable for use for high-moisture conditions (see the coverage chart).
3. Using the flat side of the trowel, key in the adhesive over the entire surface of the subfloor to ensure 100% coverage.
4. Using the notched side of the trowel, spread the adhesive consistently and evenly over the subfloor. Keep the trowel at a 45-degree angle to the subfloor and keep trowel ridges perpendicular to the direction of the board or plank.
5. Periodically check for monolithic adhesive layer to ensure 100% coverage over the subfloor and transfer to the back of the AcoustiTECH membrane or wood flooring. The 100% coverage is mandatory for applicability of the moisture-control warranty.
6. Only apply as much adhesive as can be installed within 45 minutes.
7. Install wood flooring in strict accordance with the wood-flooring manufacturer's written instructions.
8. Protect the installation from light traffic for at least 12 hours and from heavy traffic for at least 24 hours.

CLEANING

Immediately clean surfaces covered with adhesive with AD-Remover wipes when fresh and urethane adhesive cleaner 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, turn the container up and down and allow to temper at least 24 hours at room temperature about 70°F (20°C).

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

Technical data sheet

AD-532+ adhesive

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AD-532+

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-532+	4 gal / 15,1 L	1/8" x 1/8" x 1/8"		45-55	180-220	55-70	220-280	Up to 4 in. wide and 4 ft. long	1/8" x 1/8" x 1/8"		55-70	220-280
		5/32" x 3/16"		40-50	160-200	45-55	180-220	Up to 6 in. wide and 7 ft. long				
		1/8" x 1/4" x 1/4"		35-45	140-180	40-50	160-200	All width and up to 9 ft. long				

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 a patch that would cause an 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 acousti-tech.com. In case of discrepancy, the latter always takes precedence over the printed document.