



Advanced Adhesive Technologies, Inc.

AAT-434 Premium Cork Tile Adhesive

Specification Sheet

Description:

AAT-434 Premium Cork Tile Adhesive is a pure acrylic based adhesive specifically formulated for installing cork tile. AAT-434 can be used on all grade levels over concrete and approved wood sub-floors in the absence of excessive moisture emissions and alkalinity. AAT-434 may be used over existing, non-cushion backed resilient flooring.

AAT-434 is nonflammable, contains no carcinogens, and is non-toxic. AAT-434 is moisture and alkali resistant and forms a tenacious, permanent bond. AAT-434 is freeze-thaw stable to 15° to 25° F. This zero VOC adhesive is approved by the C.R.I.'s Green Label Plus program and is protected by the CleanGuard® two-stage antimicrobial. CleanGuard® is a specifically formulated broad-spectrum, anti-microbial agent that protects our adhesives and sealers from microorganisms, such as mold or mildew, in both the wet and dry state.



Prior to the start of the installation the installer must determine that the job-site conditions meet or exceed all applicable standards of the flooring manufacturer and AAT. Installation of cork flooring should be one of the last jobs of any construction project. The sub-floor should be prepared according to the standards and practices set forth in the document ASTM F-710-08.

Site Conditions:

The building should be completely enclosed. All outside doors and windows should be properly installed with latching mechanisms in place.

Landscaping should be sufficiently completed to direct water away from the building. Gutters and downspouts should be in place.

All concrete, masonry, plastering, drywall and other wet work should be completed and thoroughly dry prior to beginning the installation. Texturing and paint primer coats should be completed. Where possible the installation of the base molding should not take place until after the flooring has been installed.

The HVAC system for the building should be operating for a minimum of 72 hours prior to the start of the installation. The flooring should not be exposed to extremes of temperature, humidity or moisture. The installation site should have a consistent air temperature of 65°F-95°F and relative humidity levels should be between 35%- 60% for a minimum of 72 hours prior to the start of the installation. The temperature of the sub-floor should be between 65°F-85°F. These conditions must be maintained to ensure long term success and performance of the flooring installation.

Basements and crawl spaces should be dry and adequately ventilated. Sub-floors must be checked for moisture content and emissions using industry accepted methods. Crawl spaces should meet local building codes regarding minimum heights, cross ventilation and the use of vapor retarders.

Sub-floors must be free from dust, dirt, grease, wax, curing agents, sealers, oil and any other bond inhibiting substances. The sub-floor should be level within 3/16" in 10' or 1/8" in 6'.

Concrete must be fully cured and dry with moisture emission rates that do not exceed 3 lbs/1000 sq ft/24 hrs as measured by the Anhydrous Calcium Chloride Test (ASTM-F-1869-04). Lightweight concrete should be tested according to the requirements of ASTM-2170-02. In situ relative humidity should not exceed 75%. Concrete surface pH is required to be 7-9.0. Before any moisture testing begins, the slab must be cured for a minimum of 30 days and the HVAC system must be operating for a minimum of 72 hours. Fill low areas with a polymer-modified portland cement leveling or patching compound. Leveling and patching compounds must be tested to ensure they are properly cured and within the manufacturer's specified requirements before proceeding with the installation. Mechanical surface profiling is the preferred sub-floor preparation method. Mechanically profile the sub-floor to medium-grit sandpaper texture. Sanding or scouring with open paper or a titanium disk is preferred. Remove curing and parting compounds and other surface hardeners and floor coatings by mechanically profiling, bead blasting or other similar means. Lightweight concrete and gypsum concrete must be primed with the AAT-570 Primer.

For Wood Joist Systems the sub-floor should be structurally sound, free of loose panels or boards, and free of protruding fasteners. Moisture content should be within normal industry standards for the areas average environmental conditions. Underlayment panels should be fastened according to the manufacturer's specifications. All panel seams should be sanded level and prepared according to the manufacturer's instructions. Minimum sub-flooring: 5/8" CDX plywood sub-floor/underlayment (Exposure 1), maximum 16" o.c. construction. Install the flooring perpendicular to the floor joists. Do not

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install flooring over existing glue-down wood flooring or nailed down wood flooring that is wider than 3 1/4". Wide plank floors must be covered with an acceptable underlayment.

AAT-434 may be used to install over existing non-cushioned sheet vinyl and vinyl tiles if the existing flooring is well bonded. Clean the surface thoroughly and de-gloss the surface using an abrasive pad to create a suitable sub-floor. Resilient sub-floors must be free from dust, dirt, grease, wax, sealers, oil and any other bond inhibiting substances. These substances must be removed with the appropriate stripper/removers. Fill low areas with a cementitious leveling compound or latex milk additive latex patch with minimum 3,000 psi compressive strength. Leveling compounds must be tested to ensure they are properly cured and within the manufacturer's specified requirements before proceeding with the installation. Repair or replace loose flooring products. Never sand any resilient flooring that may contain asbestos fibers.

Follow application and installation procedures provided with the flooring. Regulations may require that existing flooring material or coatings be tested to determine the asbestos content. Refer to the instructions for removal and handling of resilient flooring published by the RFCI, Recommended Work Practices for Removal of Resilient Floor Coverings.

Installation Recommendations:

1. Flooring and adhesive should be acclimated to the job site conditions for 24 hours prior to the installation.
2. Refer to the information above for specific information regarding sub-floor preparation and site conditions.
3. Spread the adhesive a 1/2" nap roller.
4. Allow the adhesive to dry to the touch. When no adhesive transfers to your finger, the adhesive is ready to accept the flooring.
5. Lay tiles from alternate cartons to help evenly distribute shade variations. Tiles can be installed in a grid, ashlar, or brick pattern. Press tiles firmly into the adhesive. DO NOT SLIDE the tiles into position. Tiles should fit closely together, but should not butt together too tightly. Seat tiles into the adhesive with a soft, rubber mallet.
6. Once the tiles are laid the floor must be rolled with a 100 to 150 lb. three-section roller. The tile must be rolled in both directions ensuring the tile contacts the adhesive. Use a hand roller along wall edges or other hard to reach areas to ensure a complete bond.
7. Check to make sure all joints are level and smooth.
8. If excess adhesive appears on tiles, use warm water on a dampened rag (not a wet rag) with a mild soap and gently blot the adhesive off. If the adhesive has dried on the face of the tile, wipe gently with a clean, lint-free cloth and AAT-197 Adhesive Remover being careful not to dull the cork's finish.
9. It is recommended to minimize traffic over the newly installed flooring for at least 24 hours after the installation has been completed. Do not wash, clean or apply a finish to the floor for 72 hours after completion of the installation. To replace furniture and appliances use plywood panels to protect the flooring.
10. Follow the cork tile manufacturer's printed instructions for the finishing of the flooring.

Specific Technical Data:

3. Base: Acrylic Latex Emulsion
4. Color: Gray
5. Typical roller and approximate coverage:
1/2 inch nap roller (Not to exceed 300 sq. ft. per gallon)
6. Clean-Up: Remove wet adhesive with water and mild soap solution. Use AAT-197 Adhesive Remover to remove dried adhesive. Dried adhesive may be more difficult to remove, therefore, take care to remove adhesive from the surface of the flooring before it dries. Do not apply the AAT-197 directly to the flooring material.
7. Packaging: 4 gallon pails and one gallon pails (four per case)
8. Shelf-Life: One year from date of manufacture in un-opened container when stored at 70°F.
9. Freeze-Thaw Stable to 15°F. Stability and spreadability can be affected if allowed to freeze. Frozen material should be allowed to thaw at room temperature. DO NOT agitate or stir while frozen.

You can contact the Carpet and Rug Institute thru their web site www.carpet-rug.com or 1(800)882-8846. The Resilient Floor Covering Institute may be reached thru their web site www.rfci.org or 1(301)340-8580.

For questions regarding specific installations or usage information contact AAT's Technical Department Monday thru Friday from 8a.m. to 5 p.m. (ET) at 1(800)228-4583. Additional information can also be found thru our web site at www.aatglue.com.

Warranty:

AAT products are manufactured to rigid Quality Control specifications and warranted to be free of defects. Defective brought to our attention within one year of manufacture will be replaced at no charge to our customer. Complete warranty information can be obtained by calling 1(800) AAT-GLUE and requesting a copy of the AAT *General Warranty*



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MATERIAL SAFETY DATA SHEET

NPCA HMIS

H = 1
F = 0
PH = 1

Prepared by: Tim Brown
Date of Prep: 04/21/08 (replaces 01/19/04)

SECTION I

Manufacturer's Name: Advanced Adhesive Technologies, Inc.
Street Address: 419 S. Glenwood Ave Dalton, GA. 30720
Emergency Telephone No.: Chemtec 1-800-424-9300
General Information No.: 1-800-228-4583
Product Class: Floor Covering Adhesive
Manufacturer's Code Identification: AAT-434
Trade Name: Premium Cork Tile Adhesive

SECTION II — HAZARDOUS INGREDIENTS

None

SECTION III — PHYSICAL DATA

Boiling Range: > 212°F
Vapor Density: Lighter than Air
Evaporation Rate: Slower than Ether
Percent Volatile by Volume: 28 ± 2.0%
VOC Emission: 0 g/l (calculated per SCAQMD Rule 1168)

SECTION IV — FIRE AND EXPLOSION HAZARD DATA

DOT Category: Non-flammable
Flash Point: N/A
LEL: Not Known
Extinguishing Media: Water mist, dry chemical, or mechanical foam, CO²
Unusual Fire and Fighting Hazards: None
Special Fire Fighting Procedures: None

SECTION V — HEALTH HAZARD DATA

Threshold Limit Value: Non-Established
Effects of overexposure: Wet-light headedness, nausea, and mild dermatitis. Dry –None. Acute – eye, nose and throat irritation.
Emergency and First Aid Procedures: Eye Contact: Wash with plenty of cold water for at least 15 minutes. Wash skin with soap and water. If ingested treat symptomatically and contact a physician.

SECTION VI — REACTIVITY DATA

Stability: Stable
Incompatibility: None
Conditions to avoid: Closed area with open container
Hazardous Decomposition Products: None
Hazardous Polymerization: Will not occur
Conditions to avoid: Strong acids or oxidants, temperatures below 35°F.

SECTION VII — SPILL OR LEAK PROCEDURES

Steps to be taken in case material is released or spilled: Collect in suitable container, wash area with plenty of water.
Waste Disposal Method: Dispose in accordance with local, state, and federal regulations.

SECTION VIII — SPECIAL PROTECTION INFORMATION

Respiratory Protection: None required with adequate ventilation
Ventilation: Open windows, exhaust fan, open air area
Protective Gloves: May be desirable for people with sensitive skin
Eye Protection: Safety glasses or goggles.
Other Protective Equipment: None required

SECTION IX — SPECIAL PRECAUTIONS

Precautions to be taken in handling and storing: Store in a cool, dry place. Optimum storage temperature 70°F. Keep sealed when not in use. Shelf life: One year from date of manufacturing in an unopened container.
Other precautions: Follow good housekeeping practices. Keep from freezing. If frozen allow to thaw at room temperature. Do NOT agitate or stir while frozen.