



Advanced Adhesive Technologies, Inc.

AAT-370 Ultra Premium Clear Thin Spread Adhesive Specification Sheet

Description:

AAT's next generation of adhesive formulas, have been formulated to ensure superior adhesive performance under the very demanding conditions commonly found in today's fast paced construction. AAT-370 raises the bar for the performance of clear thin spread adhesives. The brand new formula means that contractors may install vinyl composition (VCT) and asphalt tile over concrete subfloors with elevated moisture emissions or in situ relative humidity levels. The CRI Green-label Plus Adhesive Certification Program has certified AAT-370 as a "low VOC" adhesive.

AAT-370 is a ultra premium, professional adhesive that dries quickly and has a long lasting grab for the installation of vinyl composition tile (VCT), asphalt tile, and carpet cushions (urethanes, synthetic fiber, rubber sponge, etc.). This latex-resin adhesive dries to a transparent film allowing lay-out lines to remain visible. AAT-370 is "installer friendly" and "solvent free." AAT-370 spreads easily, has an extended working time, is outstandingly water resistant, and nonflammable. This adhesive can be used over smooth, flat, and structurally sound sub-floors including concrete slabs (above, on, or below grade) and suspended wood sub-floors covered by an acceptable underlayment. Like all of our adhesives, this adhesive 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.



AAT-370 Ultra Premium Clear Thin Spread is recommended for the following floor coverings: vinyl composition tile (VCT), asphalt tile and AAT approved carpet cushions (urethanes, synthetic fiber, rubber sponge, etc.)

All sub-floors must be flat and structurally sound. The sub-floor should be flat within 3/16" in 10' or 1/8" in 6'. All paint, varnish, oil, wax, finishes and any other bond inhibiting substances must be removed. Smooth or glazed surfaces must be abraded. Repair all joints and cracks with latex-based portland cement underlayment. Concrete sub-floors must be properly prepared according to the recommended practices detailed in the document ASTM F-710-11. Concrete slabs on or below grade must have a functioning vapor retarder. This vapor retarder must be directly between the slab and the capillary break. The sub-floor must have a maximum moisture emission rate of 8lbs/1000 sq.ft. /24 hours [ASTM F1869-10], a pH of 7.0- 9.0 [ASTM F710-11], and maximum *in situ* RH of 85% [ASTM F2170-09]. Never sand existing resilient flooring that could contain asbestos. Follow all Federal, State and Local regulations relating to the removal of in-place, asbestos containing material. Very porous sub-floors must be primed with AAT-570 Primer/Sealer.

- Concrete above, on or below grade
- APA rated plywood underlayment
- Properly prepared gypsum cement

NOTE: Particleboard and OSB are **not** recommended underlayments. Strip or plank wood flooring, particleboard and OSB sub-floors should be covered with an approved plywood underlayment (minimum thickness of 1/4"). Before beginning installations with flooring types or over sub-floors not listed contact AAT Technical Services for recommendations. While some Lauan plywood panels are widely marketed as "underlayments", there are a variety of qualities and species sold as such. Some varieties present severe problems when used as underlayments. Frequent problems noted are discoloration, indentation, bond failure, and underlayment delamination. AAT will not warrant the adhesive when applied over Lauan plywood. 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 in the publication, *Recommended Work Practices for Removal of Resilient Floor Coverings*. The Resilient Floor Covering Institute may be reached thru their Website www.rfci.org or by calling 301-340-8580.

Typical Trowels and approximate coverage (depth x width x spacing):

VCT, Asphalt tile over porous sub-floors: 1/32" x 1/16" x 1/32" U or □ notch trowel: 180-250 sq ft/gal and over non-porous sub-floors: 1/32" x 1/32" x 1/32" □ notch trowel: 300-350 sq ft/gal.

Carpet cushions: 1/16" x 1/16" x 1/16" □ notch trowel: 125-150 sq ft/gal.

Installation Recommendations: The building should be completely enclosed. All outside doors and windows should be properly installed with latching mechanisms in place. Adequate ventilation should be available. The HVAC system for the building should be operational and provide a consistent temperature of 65-75°F (air and sub-floor) and humidity levels should be between 35-55% for a minimum of 72 hours prior to the installation. These conditions must be maintained to ensure the long term success and performance of the installation.

1. Flooring and adhesive should be acclimated to the job site conditions for a minimum of 24 hours prior to the installation.
2. Be familiar with the recommendations and any special instructions from the flooring manufacturer before beginning the installation.
3. Refer to the information above for specific information regarding sub-floor preparation and site conditions.
4. When installing VCT and asphalt tile spread the AAT-370 with the appropriate trowel and allow the adhesive to dry to a clear, tacky state. Place the tile into the dry, pressure sensitive adhesive.
5. For use with carpet cushion, spread the adhesive with the appropriate trowel and allow it to develop tack. DO NOT allow the adhesive to "skin-over" or dry. Place the cushion into the "wet-tacky" adhesive while the adhesive is still wet enough to transfer to the back of the flooring.
6. Roll the installed VCT with a 75-100lb, three-section roller. Rolling should take place immediately after the flooring is placed into the adhesive.
7. 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 or clean the floor for five days after completion of the installation. To replace furniture and appliances use plywood panels to protect the flooring.

Specific Technical Data:

- A. Base: SBR emulsion
- B. Color: light tan
- C. 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 solvent directly to the flooring material.
- D. Packaging: 4 gallon pails and one gallon pails (4 per case)
- E. Shelf-Life: One year from date of manufacture in un-opened container when stored at 70°F.
- F. Freeze-Thaw Stable to 15°F. Stability and spread-ability can be affected if allowed to freeze. Frozen material should be allowed to thaw at room temperature. DO NOT agitate or stir while frozen.
- G. VOCs: 0 g/l (Calculated per Ca. Rule 1168)
- H. Not recommended for exterior installations.

NOTE: We recommend installers follow the guidelines set forth in the flooring manufacturer's specific recommendations. Before placing the flooring, the adhesive must be allowed an open or dwell time appropriate for the flooring product, jobsite and sub-floor conditions. AAT-370 has an extended working time up to 24 hours after the initial drying if the area is kept dust free. It is extremely important to maintain recommended notch depth, width and spacing. The proper notch depth is that which will produce adhesive ridges that affect a 100% transfer to both the substrate and the backing of the flooring to include the inner recesses of the texture of the back.



August 16, 2011 (Replaces August 2007)

MATERIAL SAFETY DATA SHEET

NPCA HMIS

H = 1
F = 0
R = 0

Prepared By: **Tim Brown**

Date: **01/15/05**

SECTION I

Manufacturer's Name: Advanced Adhesive Technologies, Inc.
Street Address: 424 S. Spencer St. Dalton, GA. 30720
Emergency Telephone No.: (706) 226-0610 or (706) 295-3728 or (706) 629-1423
Product Class: Floor Covering Adhesive
Manufacturer's Code Identification: AAT-370
Trade Name: Advanced Air Tech—Clear Thin Spread Tile Adhesive

SECTION II — HAZARDOUS INGREDIENTS

None

SECTION III — PHYSICAL DATA

Boiling Range: Greater than 212° F
Vapor Density: Lighter than Air
Evaporation Rate: Slower than Ether
Percent Volatile by Volume: 43%+/- 2%
Weight per Gallon: 9.3 – 9.8 lbs.
VOC Emission: 0 g/l (calculated per Ca. South Coast Rule 1168)

SECTION IV — PHYSICAL DATA

DOT Category: Nonflammable
Flash Point: N/A
LEL: Not Known
Extinguishing Media: Water mist, dry chemical, CO₂, mechanical foam
Unusual Fire and Fighting Hazards: Liquid adhesive will not ignite. Dried adhesive will ignite if heated over 150°C and or exposed to ignition source, producing CO, CO₂, smoke and hydrocarbons.
Special Fire Fighting Procedures: If dried adhesive ignites, use dry chemical, foam extinguishers, or a fog nozzle. For small fires, CO₂ extinguishers can be used. Use air mask when combating dried adhesive fires.

SECTION V — HEALTH HAZARD DATA

Threshold Limit Value: Non-established
Effects of overexposure: Wet-possible lightheadedness, nausea, and/or mild dermatitis could develop. Dry-None.
Emergency and First Aid Procedures: Flush eyes with ample water. Wash skin with soap and water. If ingested, treat symptomatically and contact physician.

SECTION VI — REACTIVITY DATA

Stability: Stable
Incompatibility: (Materials to avoid)
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 20°F

SECTION VII — SPILL OR LEAK PROCEDURES

Steps to be taken in case material is released or spilled: Scoop up excess with shovel, wash remainder with water.
Waste Disposal Method: Landfill or incinerate as per local and state 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.
Other precautions: Keep from freezing. Keep sealed when not in use.
If frozen, allow adhesive to thaw at room temperature. DO NOT agitate or stir until adhesive is completely thawed.
Shelf Life – One year from the date of manufactured in an unopened container.