



## Advanced Adhesive Technologies, Inc. AAT-230 Dual Purpose Adhesive Specification Sheet

### Description:

AAT-230 is the professional's choice for value and performance, providing excellent green strength, working time and ultimate bond strength. AAT-230 Dual Purpose is a 0 VOC, non-staining, latex-based adhesive, designed for the permanent installation of broadloom carpets and felt backed sheet vinyl. This non-flammable 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-230 is recommended for use with the following carpet backings: woven polypropylene (ActionBac®), polyurethane foam, latex unitary, jute, rubber, and needlepunch. Due to its non-staining formula, AAT-230 can be used to install sheet vinyl with felt and paper backings. NOTE: This adhesive is not recommended for pure vinyl backed sheet goods or carpets.



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. 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.

AAT-230 Dual Purpose Adhesive can be used over the following sub-floors with a maximum moisture emission rate of 3lbs/1000 sq ft. /24 hours [ASTM F1869-10], a pH of 7.0- 9.0 [ASTM F710-11], and a maximum *in situ* RH of 80% [ASTM F2170-09]:

- 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 Luan 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 Luan 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](http://www.rfci.org) or by calling 301-340-8580.

Typical trowels and approximate coverage's: [width x depth x space]

Woven polypropylene and rough backed carpets: 1/8" x 1/8" x 1/8" U-notch, 90-110 sq. ft. /gal.

Latex Unitary: 1/8" x 3/16" x 1/8" U-notch, 45-55 sq. ft. /gal.

Smooth backed carpets: 3/32" x 3/32" x 3/32" V-notch 115-135 sq. ft. /gal.

Sheet vinyl: 1/16" x 1/16" 1/16" U-notch 125-150 sq. ft. /gal.

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800-228-4583 • Fax 706-278-6207 • [aatglue.com](http://aatglue.com)

### Specific Technical Data:

- A. Base: Latex-resin emulsion
- B. Color: Yellow-Tan
- C. VOCs: 0 g/l (Calculated per Ca. Rule 1168)
- D. This adhesive should not be used for exterior installations. Use AAT-383 or AAT-290 for exterior installations.
- E. 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.
- F. Freeze-Thaw Stable (Stability and spread-ability can be reduced if frozen. For best results, do not allow to freeze.)
- G. Shelf-Life: One year from date of manufacture in un-opened container when stored at 70°F.
- H. Sizes: 1 gallon and 4 gallon pails

### Installation Recommendations:

*Prior to the start of the installation the installer must determine that the job-site conditions meet or exceed all applicable standards of the floor covering manufacturer and AAT*

1. Flooring materials and adhesive must be stored in a pre-heated building where room temperature should be no less than 65°F for a minimum of 24 hours before the installation begins. Adequate ventilation should be available at the installation site. The HVAC system for the building should provide a consistent air temperature of 65°-75°F and relative humidity levels should be between 35-55% for a minimum of 48 hours prior to and for 72 hours following the installation. The temperature of the sub-floor should be 65°- 90°F during the installation. Do not allow the temperature of indoor carpeted areas to fall below 50°F, regardless of the age of the installation.
2. Apply the adhesive with the appropriate trowel (see above.)
3. Allow the adhesive to tack properly before placing the flooring into the wet-tacky adhesive. Temperature and relative humidity will affect the tack and working time of the adhesive. Occasionally, lift the carpet or flooring to assure that a 100% adhesive transfer is achieved.
4. Seal seams and edges with an appropriate seam adhesive to prevent raveling and to maintain the appearance of the carpet. (i.e. AAT-181, AAT-125)
5. Lay floor covering into the adhesive as to minimize air bubbles and wrinkles.
6. Roll flooring to ensure adequate transfer (Sheet vinyl-75-100 lbs.; Carpet-50-75 lbs.) Roll from centers to edges, forcing out air pockets.

**NOTE:** We recommend installers follow the guidelines set forth in CRI's *Carpet Installation Standard*. Before placing the carpet or flooring the adhesive must be allowed an open or dwell time appropriate for the flooring, backing, jobsite and sub-floor conditions. 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 carpet backing to include the inner recesses of the texture of the back.



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# MATERIAL SAFETY DATA SHEET

## NPCA HMIS

H = 1  
F = 0  
PH = 0

Prepared By: Tim Brown  
Date: June 1, 2007 (Replaces August 30, 2006)

## SECTION I

**Manufacturer's Name:** Advanced Adhesive Technologies, Inc.  
**Street Address:** 424 S. Spencer St. Dalton, GA. 30720  
**Emergency Telephone No.:** Chemtrec (24 hours) 800-424-9300 or 706-226-0610 8 am to 5 pm Mon - Fri  
**Product Class:** Floor Covering Adhesive  
**Manufacturer's Code Identification:** AAT-230  
**Trade Name:** Dual Purpose Floor Covering 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  
**pH** 9.3 – 9.8  
**Percent Volatile by Volume:** 40 ± 2.0%  
**VOC Emission:** 0 g/l (calculated per SCAQMD Rule 1168)

## SECTION IV — PHYSICAL DATA

**DOT Category:** Nonflammable  
**Flash Point:** N/A  
**LEL:** Not Known  
**Extinguishing Media:** Water mist, dry chemical, CO<sub>2</sub>, 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, CO<sub>2</sub>, smoke and hydrocarbons.  
**Special Fire Fighting Procedures:** If dried adhesive ignites, use dry chemical, foam extinguishers, or a fog nozzle. For small fires, CO<sub>2</sub> 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 35°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.  
Shelf Life – One year from date of manufacture in an unopened container.  
**Other precautions:** Keep from freezing. If frozen allow adhesive to thaw at room temperature.  
DO NOT agitate or stir until adhesive is completely thawed. Keep sealed when not in use.

**Specific Technical Data:**

- A. Base: Latex-resin emulsion
- B. Color: Yellow-Tan
- C. Flammability: Non-flammable
- D. This adhesive should not be used for exterior installations. Use AAT-383 or AAT-390 for exterior installations.
- E. Clean-up: Remove wet adhesive with cloth dampened with tap water. Use AAT-197 AD-Hesive Cleaning Solvent for dry adhesive.
- F. Freeze-Thaw Stable (Stability and spread ability may be reduced if frozen. For best results, do not allow to freeze.)
- G. Sizes: 1 gallon and 4 gallon pails

**Typical trowels and approximate coverages:**

Sheet Vinyl

1/16" x 1/16" x 1/16" sq. notch  
(Width x Depth x Space)  
125-150 sq. ft. per gal

Jute and Smooth Backed Carpet

3/32" x 3/32" x 3/32" V or U-notch  
(Width x Depth x Space)  
120-130 sq. ft. per gal

Woven Polypropylene and Rough Backed Carpet

1/8" x 1/8" x 1/8" U-notch  
(Width x Depth x Space)  
90-110 sq. ft. per gal

Latex Unitary

1/8" x 3/16" x 1/8" U-notch  
(Width x Depth x Space)  
45-50 sq. ft. per gal

We recommend installers follow the guidelines set forth in CRI-104 or specific manufacturer's recommendations. While it is extremely important to maintain notch 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 carpet backing to include the inner recesses.

