



Advanced Adhesive Technologies, Inc. AAT-271 Sheet Vinyl Adhesive Specification Sheet

Description:

AAT-271 Sheet Vinyl Adhesive is a specially formulated solvent free, low odor, latex-resin emulsion adhesive. This adhesive is formulated specifically for the installation of felt backed sheet vinyl flooring from most vinyl manufacturers and is backed by a Seven Year Performance Warranty. The AAT-271 will not cause staining or discoloration in sheet vinyl floors. AAT-271 can also be used on a variety of broadloom carpets with ActionBac®, latex foam, Kanga-back, or jute backings. It is recommended for both residential and commercial applications. The adhesive is protected by the two stage anti-microbial, CleanGuard®. 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-271 is recommended for sheet vinyl flooring with paper, mineral or felt backings. AAT-271 is also recommended for use with the following carpet backings: woven polypropylene (ActionBac®), polyurethane foam, jute, rubber, and needlepunch.



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-271 Sheet Vinyl 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
- Existing non-cushion back resilient floors that are well bonded, sound, smooth, and free of waxes, finishes, cleaners and any other bond inhibiting substances.

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's: [width x depth x space]

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

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

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

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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.
- 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 this area 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 flooring.
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 of Prep: 06/01/07

SECTION I

Manufacturer's Name: Advanced Adhesive Technologies, Inc.
Street Address: 419 S. Glenwood Ave, Dalton, GA. 30721
Emergency Telephone No.: Chemtrec 1-800-424-9300
General Information No.: 1-800-228-4583
Product Class: Floor Covering Adhesive
Manufacturer's Code Identification: AAT-271
Trade Name: Advanced Air Tech – Resilient

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: 40% ± 1
VOC Emission: 0 g/l (calculated per Ca. South Coast Rule 1168)

SECTION IV — FIRE AND EXPLOSION HAZARD 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 – Lightheadedness, nausea, mild dermatitis. Dry – None. Acute – Eye, nose, and throat irritation.
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 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 of 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. 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.