



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 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 or by calling 301-340-8580.

424 South Spencer Street Dalton, GA 30721

800-228-4583

Fax 706-278-6207

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.

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
- I.

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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Safety Data Sheet

Print Date: May 13, 2015

1. Identification

- **Product Name:** AAT-271
- **Product Use:** Sheet Vinyl Adhesive
- **Manufacturer:** Advanced Adhesive Technologies, Inc.
424 South Spencer Street
Dalton, GA 30721
800-228-4583
- **Emergency telephone number:** Chemtrec 1-800-424-9300

2. Hazard(s) identification

- **Classification of the substance or mixture**

This product does not meet the criteria for classification as hazardous under the GHS and 29 CFR 1910.1200

- **Label elements**
- **GHS label elements** Void
- **Hazard pictograms** Void
- **Signal word** Void
- **Hazard statements** Void
- **Classification system:**
- **NFPA rating (scale 0 – 4)**

Health = 1
Fire = 0
Reactivity = 0



- **HMIS-rating (scale 0 – 4)**

Health = 1
Fire = 0
Physical Hazard = 0

3. Composition/information on ingredients

- **Chemical characterization:** Mixtures
- **Description:** Adhesive
- **Dangerous components:**
No hazardous/reportable components

| | | |
|-----------------|-------|--------|
| Cas # 7732-18-5 | Water | 31-48% |
|-----------------|-------|--------|

- **Trade name:** AAT-271

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4. First-aid measures

- **Description of first aid measures**
- **After inhalation:** Overexposure, remove to fresh air and seek medical attention.
- **After skin contact:** Immediately wash with water and soap and rinse thoroughly.
- **After eye contact:** Rinse opened eye for several minutes under running water.
- **After swallowing:** Do not induce vomiting; immediately call for medical help.
- **Most important symptoms and effects, both acute and delayed:** No further relevant information available.
- **Indication of any immediate medical attention and special treatment needed:**
No further relevant information available

5. Fire-fighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:**
CO₂, extinguishing powder or water spray. Fight larger fires with water spray.
Use fire fighting measures that suit the environment.
- **Special hazards arising from the substances or mixture:** Dried solids can burn and release toxic fumes and vapors.
- **Advice for firefighters**
- **Protective equipment:** Protective clothing and respiratory protective device.

6. Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**
Wear protective equipment. Keep unprotected persons away.
Ensure adequate ventilation
- **Environmental precautions:** Dilute with water.
- **Methods and material for containment and cleaning up:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust)
Wash area thoroughly with water.
Dispose of contaminated material as waste in accordance with federal state and local regulations.
Ensure adequate ventilation.
- **Reference to other sections**
See section 7 for information on safe handling
See section 8 for information on personal protection equipment
See section 13 for disposal information

7. Handling and storage

- **Precautions for safe handling**
Avoid prolonged or repeated contact with skin.
Avoid contact with eyes.
Wash thoroughly after handling.
- **Information about protection against explosions and fires:** No special measures required.
- **Conditions for safe storage, including any incompatibilities**
- **Storage**
- **Requirements to be met by store rooms and receptacles:**
Store above 40 °F. Freeze-thaw stable up to five cycles at 20 °F.
- **Information about storage in one common storage facility:** Not required
- **Further information about storage conditions:** Protect product from freezing.
- **Specific end use(s)** No further relevant information available.

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8. Exposure controls/personal protection

- **Additional information about design of technical systems:** No further data; see item 7
- **Control parameters**
- **Components with limit values that require monitoring at the workplace:**
This product does not contain any relevant quantities of materials with critical values that have to monitor at the workplace.
- **Additional information:** The lists that were valid during the creation were used as basis.
- **Exposure controls**
- **Personal protective equipment (see listings below)**
- **General protective and hygienic measures:**
The usual precautionary measures for handling chemicals should be followed.
- **Breathing equipment:** Not necessary if room is well-ventilated
- **Protection of hands:** Protective gloves
The glove material has to be impermeable and resistant to the product/the substance/ the preparation.
- **Material of gloves:** natural rubber
- **Eye protection:** Safety glasses with side shields
- **Body protection:** Protective work clothing

9. Physical and chemical properties

- **Information on basic physical and chemical properties**
- **General Information**
- **Appearance:**
 - Form: Heavy paste
 - Color: Tan to light beige
- **Odor:** Resinous
- **Odour threshold:** Not determined
- **pH-value at 20°C (68°F):** 9.3-10.8
- **Change in condition**
 - Melting point: Undetermined
 - Boiling point: 212°F (100°C)
- **Flash point:** Not applicable
- **Flammability (solid, gaseous):** Not applicable
- **Ignition temperature:**
 - Decomposition temperature: Not determined
- **Auto igniting:** Product is not self igniting
- **Danger of explosion:** Product does not present an explosion hazard.
- **Flammable limits:**
 - Lower: Not determined
 - Upper: Not determined
- **Specific gravity at 20°C (68°F):** 1.02 – 1.26
- **Relative density:** Not determined
- **Vapour density:** Not determined
- **Evaporation rate:** Slower than ether
- **Solubility in/Miscibility with**
 - Water: Miscible in water, difficult to mix

- **Solvent content:**
 - Organic solvents:** 0.0%
 - Water:** 31-48%
- **Other information:** California VOC Compliance:
Solvent Free Product
SCAQMD Rule 1168: VOC compliant

10. Stability and reactivity

- **Reactivity**
- **Chemical stability**
- **Thermal decomposition/conditions to be avoided:** No decomposition if used according to specifications
- **Possibility of hazardous reactions:** No dangerous reactions known.
- **Conditions to avoid:** No further relevant information available.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:** Carbon monoxide and carbon dioxide

11. Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:**
- **Primary irritant effect:**
 - **on the skin:** May irritate the skin
 - **on the eye:** May irritate the eye
- **Sensitization:** No sensitizing effects known.
- **Additional toxicological information:**

The product is not subject to classification according to internally approved calculation methods for preparations: When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

- **Carcinogenic categories:**

| |
|---|
| • IARC (International Agency for Research on Cancer) |
| None of the ingredients is listed |
| • NTP (National Toxicology Program) |
| None of the ingredients is listed |
| • OSHA-Ca (Occupational Safety & Health Administrations) |
| None of the ingredients is listed |

12. Ecological Information

- **Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **Persistence and degradability:** No further relevant information available.
- **Bioaccumulative potential:** No further relevant information available.
- **Mobility in soil:** No further relevant information available.
- **Other adverse effects:** No further relevant information available.

13. Disposal Considerations

- **Waste treatment methods**
- **Recommendation:** Comply with current regulations
- **Uncleaned packaging:**
- **Recommendation:** Comply with current regulations.

14. Transport information

| | |
|--|--|
| • Un-Number | |
| • DOT, ADR, AND, IMDG, IATA | Not regulated |
| • UN proper shipping name | |
| • DOT, ADR, AND, IMDG, IATA | Not regulated |
| • Transport Hazard class (es) | |
| • DOT, ADR, AND, IMDG, IATA | |
| • Class | Not regulated |
| • Packing group | |
| • DOT, ADR, IMDG, IATA | Not regulated |
| • Environmental hazards: | Not applicable |
| • Special precautions for user | Not applicable |
| • Transport in bulk according to Annex II of MARPOL73/45 and the IBC Code | Not applicable |
| • Transport/Additional information: | DOT, ADR, IMDG, IATA – Not regulated in transport. Not dangerous according to the above specifications. |
| • UN “Model Regulation”: | |

15. Regulatory information

- **Safety, health and environmental regulation/legislation specific for the substance or mixture**

- **Sara**

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| • Section 355 (extremely hazardous substances): |
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|-----------------------------------|
| None of the ingredients is listed |
|-----------------------------------|

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| • Section 313 (Specific toxic chemical listings): |
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|-----------------------------------|
| None of the ingredients is listed |
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| • TSCA (Toxic Substances Control Act): |
|---|

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| All components of this product are on the TSCA Inventory or are exempt from TSCA Inventory requirements, |
|--|

- **Proposition 65**

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|---|
| • Chemicals known to cause cancer: |
|---|

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|-----------------------------------|
| None of the ingredients is listed |
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| • Chemicals know to cause reproductive toxicity: |
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|-----------------------------------|
| None of the ingredients is listed |
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- **(DSL) Canada Domestic Substance List**

All components of this product are on the DSL (Canada Domestic Substance list) or are exempt from SDL requirements

- **Carcinogen categories**

| |
|---|
| <ul style="list-style-type: none"> • EPA (Environmental Protection Agency) |
| None of the ingredients is listed |
| <ul style="list-style-type: none"> • TLV (Threshold Limit Value established by ACHIH) |
| None of the ingredients is listed |
| <ul style="list-style-type: none"> • NIOSH-Ca (National Institute for Occupational Safety and Health) |
| None of the ingredients is listed |

16. Other information

Although the information and recommendations set forth in the SDS are presents in good faith and are believed to be correct as of the date of this SDS, AAT makes not representations as to the completeness or accuracy thereof. Information is supplied on the condition that the persons receiving and using it will make their own determination as to the suitability for their purpose prior to use. In no event will AAT or any affiliate thereof be responsible for damages of any nature whatsoever resulting from the use or reliance on the information set forth in the SDS.

Department issuing SDS: Environment protection department

Creation date: May 1, 2015