



Advanced Adhesive Technologies, Inc. AAT-295 Ultra Premium Adhesive Specification Sheet

Description:

AAT's next generation of adhesive formulas have been formulated to ensure adhesive performance under the very demanding conditions commonly found in today's fast paced construction. AAT-295 again raises the bar for adhesive performance in the flooring industry. The brand new formula means that contractors may install high performance broadloom carpet backings over concrete subfloors with elevated moisture emissions or in situ relative humidity levels. The CRI Green-label Plus Adhesive Certification Program has certified AAT-295 as a "low VOC" adhesive.

AAT-295 still reduces the amount of open or dwell time required when installing high performance carpets, thereby dramatically increasing the installer's daily production capabilities without compromising the integrity of the installation. This high solids, low odor, solvent free and installer friendly adhesive can be used with virtually all broadloom carpets and is especially recommended for high performance carpet backings. 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-295 Ultra Premium Adhesive can be used for the following carpet backings and floor coverings:

- Direct-Glue: woven polypropylene (ActionBac®, hot melt, etc.) latex unitary, polyurethane foam-backed (Enhancer® I,II,III,IV, BioCel™ and Durafoam), rubber backs, woven, axminster, needlepunch, and jute
- Double-Glue: 295 is recommended for double-glue "carpet to pad" applications with specific carpet backings approved by AAT for this application. This adhesive can also be used to adhere approved double-glue carpet cushions.

Note: This adhesive is not recommended for pure vinyl backed sheet goods or carpets.

All sub-floors must be flat and structurally sound. All concrete curing agents, paints, varnishes, oils, waxes, finishes and any other bond inhibiting substances must be removed prior to applying the adhesive. Smooth or glazed surfaces must be abraded. Repair all joints and cracks with latex-based portland cement underlayments. 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: Strip or plank wood flooring, particleboard and OSB sub-floors should be covered with an approved underlayment (minimum thickness of ¼"). Before beginning installations with backing systems or over sub-floors not listed contact AAT's Technical Services for recommendations.

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

Woven polypropylene, woven, axminster: 1/8" x 1/8" x 1/8" U notch, 100 sq. ft. /gal.

Attached cushions: 3/32" x 3/32" x 3/32" V notch, 125 sq. ft. /gal.

Unitary and Double-Glue (Carpet to Cushion): 1/8" x 1/8" x 1/16" U notch, 50 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. Follow the flooring manufacturer's specific recommendations regarding seam sealing.
3. Refer to the information above for specific information regarding sub-floor preparation and site conditions.
4. Spread the adhesive with the appropriate trowel as defined above. Allow the appropriate dwell or open time. Lay the carpet into the adhesive as to minimize bubbles and wrinkles.
5. Roll the carpet to ensure adequate transfer. Direct glue: 75lbs, Double glue: 35 lbs. Wet adhesive transfer to the carpet must be 100%.
6. Roll carpet "north to south" and "east to west" from center to edge forcing out air pockets and eliminating wrinkles.

Specified Technical Data:

- Base: SBR-resin emulsion
- Color: yellow-tan
- Flammability: Non-flammable
- Shelf Life: One year from date of manufacture in an unopened container
- Freeze-Thaw Stable: If frozen, allow to thaw at room temperature. Do NOT stir or agitate while frozen. Stability and spread-ability can be reduced if frozen. For best results do not allow to freeze.
- Clean-up: Remove wet adhesive with damp cloth (plain water). Use AAT-197 Adhesive Remover for dried adhesive.
- VOCs: 0 g/l (Calculated per Ca. Rule 1168)
- Not recommended for exterior installations.

NOTE: We recommend installers follow the guidelines set forth in the CRI's *Carpet Installation Standard*. Before placing the carpet, the adhesive must be allowed an open or dwell time appropriate for the carpet 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.



MATERIAL SAFETY DATA SHEET

NPCA HMIS

H = 1
F = 0
R = 0

Prepared by: Greg Wood
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SECTION I

Manufacturer's Name: Advanced Adhesive Technologies, Inc.
Street Address: 424 S. Spencer St. Dalton, GA. 30720
Emergency Telephone No.: Chemtrec 1-800-424-9300
General Information No.: 1-800-228-4583
Product Class: Latex Emulsion
Manufacturer's Code Identification: AAT-295
Trade Name: The Time Saver Adhesive

SECTION II — HAZARDOUS INGREDIENTS

None

SECTION III — PHYSICAL DATA

Boiling Range: > 212°F
Vapor Density: Heavier
Evaporation Rate: Slower than Ether
Percent Volatile by Volume: 29% ± 1
VOC Emission: 0 g/l (calculated per Ca. South Coast Rule 1168)

SECTION IV — FIRE AND EXPLOSION HAZARD DATA

DOT Category: Latex (N/A)
Flash Point: > 220°F
LEL: Not Known
Extinguishing Media: Regular foam or CO2 or dry chemical
Unusual Fire and Fighting Hazards: Will burn under conditions of extreme heat. Presents no unusual burning characteristics.
Special Fire Fighting Procedures: Wear self contained breathing apparatus with a full face piece operated in pressure demand or other positive pressure mode when fighting fires.

SECTION V — HEALTH HAZARD DATA

Threshold Limit Value: OSHA – 500 ppm, ACGIH TLV 300 ppm
Effects of overexposure: If TLV of the product is exceeded or any component is needed, a NIOSH/NSHA jointly approved air supplied respirator is advised in absence of proper environmental control. OSHA regulations also permit other respirators under specified conditions.
Emergency and First Aid Procedures: INHALATION – If breathed excessive amounts, remove to fresh air. EYES – Flush with large amounts of water, lifting upper & lower lids occasionally, get medical attention. SKIN – Thoroughly wash exposed area with water & soap. Remove and launder contaminated clothing before re-use. INGESTION – If swallowed, call a physician.

Product is non-carcinogenic as listed by National Toxicology program and IARC monograph and OSHA. Prolonged skin contact can cause moderate irritation. Breathing excessive inhalation of vapors can cause nasal and respiratory irritation. Swallowing can cause gastrointestinal irritation, nausea, vomiting, and diarrhea.

SECTION VI — REACTIVITY DATA

Stability: Stable
Incompatibility: (Materials to avoid)
Conditions to avoid: Intense heat and flame, strong oxidizers
Hazardous Decomposition Products: May produce carbon oxides under fire conditions
Hazardous Polymerization: Will not occur
Conditions to avoid: N/A

SECTION VII — SPILL OR LEAK PROCEDURES

Steps to be taken in case material is released or spilled: Dam material, use chemical absorbent, shovel and place in safe container.
Waste Disposal Method: Landfill in accordance with local, state, and federal regulations.

SECTION VIII — SPECIAL PROTECTION INFORMATION

Respiratory Protection: Normally none, special closed areas, respirator (NIOSH/NSHA approved)
Ventilation: Fresh air, cross ventilation indoors
Protective Gloves: Neoprene or nitrile
Eye Protection: Safety glasses or goggles.
Other Protective Equipment: As needed or applicable

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 DO NOT agitate. Allow to thaw at room temperature before using adhesive. Keep sealed when not in use.