



Advanced Adhesive Technologies, Inc.

AAT-675 Universal Multi-purpose Floorcovering Adhesive Specification Sheet

Description:

A truly “multi-purpose” adhesive, AAT-675 can be used to successfully install virtually any floor covering product. So versatile, this advanced acrylic formula redefined the installation process. It can be used in the same fashion as a conventional adhesive or as a pressure sensitive adhesive. This is a real advantage, providing the installer with a higher degree of flexibility in regard to his work practices.

This versatile adhesive can be used over concrete sub-floors with MVER up to 5lbs (ASTM F-1869) and relative humidity up to 80% (ASTM F-2170). It also performs in highly alkaline environments. The pH range, generally considered acceptable by the industry is 7 to 9. AAT-675 will tolerate a pH up to 11; one hundred times the traditional maximum.

AAT-675 is chemically compatible with virtually every known floor covering backing system presently in use in the industry. This revolutionary adhesive virtually eliminates the possibility of an installer selecting “the wrong glue” and the need for him to be an “expert” on flooring manufacturing, construction, backing systems, and chemistry.



Due to its broad “window of opportunity” in regard to its usage, and its greater tolerance of moisture and alkali, it moves the installer farther from the “edge of the envelope” greatly increasing the “probability of success” in the installation of virtually every known floor covering backing systems manufactured today.

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. The CRI Green-label Plus Adhesive Certification Program has certified AAT-675 as a “low VOC” adhesive.

Recommended for use with:

- Broadloom carpet with polyurethane attached cushion, carpet tile and 6 ft PVC broadloom.
- Homogeneous sheet vinyl designed for “full-spread” installations, felt and fiberglass backed sheet vinyl, linoleum, sheet rubber flooring, vinyl composition tile, rubber tile, solid vinyl tile, LVT, vinyl plank, rubber or vinyl stair treads.

For recommendations regarding flooring types not listed above contact AAT Technical Services.

Installation recommendations:

1. Work areas should be free of other trades that can cause premature traffic over the flooring being installed. HVAC systems should be operational or ambient temperatures must be between 65° and 95°F, with a stable relative humidity that does not exceed 65%. It is recommended that these conditions be met 48 hours prior to the start of the installation and maintained 72 hours after the completion of the installation. It is also recommended that the ambient temperature of the area not fall below 50°F at any time after the installation. The minimum substrate surface temperature is 65°F.
2. Acceptable substrates include, but are not limited to: fully cured concrete, underlayment grade plywood. Other acceptable substrates include well bonded resilient flooring, terrazzo and ceramic tile; these sub-floors may require special preparation techniques. Contact Technical Services for recommendations when encountering substrates not mentioned above. Never sand, bead blast or abrade existing resilient flooring prior to having the existing flooring tested for asbestos.
3. Sub-floors must be structurally sound, flat, clean, and be free of dust, dirt, grease, wax, paint or any other substance that may affect the bond. Concrete sub-floors must be free of curing or parting agents with a MVER not to exceed 5 lbs. /1,000 sq.ft/24 hours, *in-situ* relative humidity not to exceed 80% and a pH below 11. When installing PVC backed carpet tile or broadloom the pH level cannot exceed 10. Gypsum-based sub-floors,

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- lightweight concrete, and other very porous sub-floors must be primed with AAT-570 before applying the adhesive.
4. Since this product can be used with so many floor covering products, proper trowel selection is critical to the success of the installation. The adhesive application rate can be affected by several variables including porosity and texture of the sub-floor, backing texture of the floor covering and other factors. It is the mechanic's responsibility to determine the proper trowel notch before beginning the installation. A basic guideline is as follows: solid vinyl tile, VCT, LVT, vinyl plank over non-porous¹ sub-floors² – 1/16" x 1/32" x 1/32" U, 200-250 sq ft/gal; solid vinyl tile, VCT, LVT, vinyl plank, rubber flooring and carpet tile over porous sub-floors – 1/16" x 1/16" x 1/16" U, 125-150 sq ft/gal²; vinyl sheet over non-porous¹ sub-floors² - 1/16" x 1/32" x 5/64" U – 250-300 sq ft/gal; vinyl sheet over porous sub-floor - 1/16" x 1/32" x 1/32" U, 200-250 sq ft/gal; broadloom carpet with polyurethane attached cushion – 3/32" x 3/32" x 3/32" U, 110 sq ft/gal.² (width x depth x space)
 5. When installing products over porous substrates allow the appropriate "flash time". However, some flooring materials, such as VCT, carpet tiles, and LVT are more efficiently installed after the adhesive has dried to the touch. (does not transfer to the finger) When installing nonporous flooring materials over nonporous substrates¹, additional "flash time" is required. Working time on nonporous sub-floors is up to two hours after the adhesive has flashed.
 6. Place broadloom and sheet goods into adhesive so as to minimize air bubbles and wrinkles.
 7. Roll flooring with an appropriate size roller (resilient: 75 – 100 lbs.; carpet, direct glue: 50 – 75 lbs.) to ensure adequate adhesive transfer. Should bubbles develop, or edges curl (a common problem with some of today's floor coverings), allow adhesive to dry further and re-roll.
 8. Direct glue down carpet placed into "wet-tacky" adhesive should be protected from foot traffic for at least 12 hours and heavy and/or roller traffic (including the placement of heavy furniture) for 24 hours. Traffic restrictions for resilient installations should be extended to at least 24 to 48 hours. Installations over "dry" adhesive can be exposed to light traffic immediately.

Additional Technical Data:

- Non-flammable
- Freeze-thaw stable to 10°F
- Shelf-life: minimum 1 year in unopened container
- Clean-up: Wet-warm water & detergent; Dry – AAT-197 Adhesive Remover
- Packaging: 4 gallon and 1 gallon pails

NOTE: We recommend installers follow the guidelines set forth in the CRI's *Carpet Installation Standard* and the specific installation and site recommendations provided by the flooring manufacturer. Before placing the floor covering, the adhesive must be allowed an open or dwell time appropriate for the carpet backing or flooring, jobsite and sub-floor conditions. AAT-675 has an extended working time up to 6 hours after the initial drying for carpet tile and up to 4 hours for LVT if the area is kept dust free. It is extremely important to maintain recommended notch depth, width and spacing.

¹ Determining whether the sub-floor is porous or non-porous is the responsibility of the user. You can check the sub-floor by placing several drops of water in several areas across the sub-floor. The sub-floor is porous if the water is absorbed within a few seconds. If the water beads and is not absorbed within a few seconds the sub-floor is non-porous.

² Armstrong recommends the use of the following trowel: 1/32" x 1/16" x 5/64" U notch.



MATERIAL SAFETY DATA SHEET

NFPA HMIS

H = 1
F = 0
PH = 1

Prepared by: Greg Wood
Date of Prep: April 20, 2010 (Replace 06/21/05)

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: Acrylic Co-Polymer Resin Blend
Manufacturer's Code Identification: AAT-675
Trade Name: Universal Multi-Purpose Adhesive

SECTION II — HAZARDOUS INGREDIENTS

None

SECTION III — PHYSICAL DATA

Boiling Range: No Data
Vapor Density: Low
Evaporation Rate: Low
Percent Volatile by Volume: 40% ± 3.0%
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-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. 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.