Advanced Adhesive Technologies, Inc.
AAT-280 The Ultimate Adhesive
Specification Sheet

AAT-280 is specially formulated to handle your toughest installation challenges. This firm setting, fast tacking adhesive is excellent for "double glue down" installations, woven carpets, and carpets with stiff unitary backing or attached cushions. AAT-280 is a safe, light colored, low odor, latex based adhesive designed with the installer's needs in mind. AAT-280 is water resistant and non-flammable, and is the most versatile, strongest, trouble-free floor covering adhesive. This adhesive is backed by a 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 wet and dry state.

AAT-280 Ultimate 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: 280 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.

This adhesive is not recommended for vinyl backed (PVC) sheet goods or carpets.

Sub-floors must be flat and structurally sound. 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 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 underlayments
- Properly prepared gypsum cement

NOTE: Particleboard is **not** a recommended underlayment. Strip or plank wood flooring and OSB sub-floors should be covered with an approved underlayment (minimum thickness of ¼"). While some Lauan underlayments are acceptable [Type 1 (Exterior) BB and CC, or OVL] there are a variety of qualities and species sold as Lauan. Some varieties present severe problems when used as underlayments. Frequent problems noted are discoloration, indentation, bond failure, and underlayment delamination. 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.

Specified Technical Data:

- Base: latex-resin emulsion
- Color: yellow-tan
- Flammability: non-flammable
- 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.
- Freeze/thaw stable: (stability and spreadablitiy will be reduced if frozen. For best results do not allow to freeze.)
- VOCs: 0 g/l (Calculated per Ca. Rule 1168).
- Size: 4 gallon pail
- Not recommended for exterior installations. Use AAT-383 or AAT-290 for exterior carpet installations

NOTE: We recommend installers follow the guidelines set forth in CRI's *Carpet Installation Standard* or specific manufacturer's recommendations. 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 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.

Protected with ISP CLEANGUARD™ biocides

MATERIAL SAFETY DATA SHEET

NPCA HMIS
H = 1
F = 0
PH = 1

Prepared By: Howard Burchett Jr

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 (8am to 5pm)
Product Class:	Floor Covering Adhesive
Manufacturer's Code Identification:	AAT-280
Trade Name:	The Ultimate Adhesive

SECTION II — HAZARDOUS INGREDIENTS

None

SECTION III — PHYSICAL DATA

Boiling Range:	Greater than 212º F
Vapor Density:	Lighter than Air
Evaporation Rate:	Slower than Ether
Percent Volatile by Volume:	30-35 %
VOC Emission:	0 g/l (calculated per Ca. South Coast Rule 1168)

SECTION IV — PHYSICAL DATA

DOT Category:	Nonflammable
Flash Point:	N/A
LEL:	Not Known
Extinguishing Media:	Water mist, dry chemical, CO_2, mechanical foam
Unusual Fire and Fighting Hazards:	Liquid adhesive will not ignite. Dried adhesive will ignite if heated over 150ºC and or exposed to ignition source, producing CO, CO_2, smoke and hydrocarbons.
Special Fire Fighting Procedures:	If dried adhesive ignites, use dry chemical, foam extinguishers, or a fog nozzle. For small fires, CO_2 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 physican.

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 35ºF

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 70ºF. Shelf Life – One year in an unopened container
Other precautions:	Keep from freezing. Keep sealed when not in use.