



## Advanced Adhesive Technologies, Inc. AAT-290 Indoor Outdoor Adhesive Specification Sheet

### Description

AAT-290 is specially formulated for the installation of synthetic turfs and grass carpets. AAT-290 is for indoor and outdoor applications where flammable products pose the risk of fire or where solvent fumes are unwanted. This adhesive provides an extremely tenacious, water resistant bond to concrete, asphalt paving surfaces and other common sub-floors. AAT-290 has a fast, aggressive tack and forms a long lasting bond.

### Recommended for use with:

AAT-290 is designed for synthetic turf and grass carpets with the following backings:

1. Woven polypropylene (ActionBac®, Unibond)
2. Closed-cell urethane foam (Enhancer I, II, III, IV, Durafoam and Uralon)
3. Rubber backings
4. latex foam
5. Jute
6. Needle-punch
7. Latex unitary



### Subfloor Surfaces

1. Exterior: Marine or exterior grade plywood, Interior: APA plywood underlayment
2. Asphalt paving (clean and fully cured)
3. Concrete -in the absence of excessive moisture emissions and alkali (Max MVER 5lbs. /1000sq. ft. /24 hrs; pH 7.0-9.0)
4. Fiberglass and Aluminum that are clean and have been lightly abraded to provide for a mechanical bond.

**NOTE:** *This adhesive is not recommended for pure vinyl backed sheet goods or carpet backings. This adhesive should not be used over asphalt roofing or treated wood. Before beginning installations with backing systems or over sub-floors not mentioned above, please contact AAT Technical Services for recommendations.*

### Specific Technical Data

- Latex-resin emulsion
- Open Time: 15-30 minutes (varies with temperature, wind and relative humidity)
- Freeze-Thaw stable
- Clean-up: wet adhesive with warm water, dry adhesive with AAT-197 Adhesive Remover
- Sizes: 1 gallon and 4 gallon pail

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## Typical trowel and approximate coverage

### smooth backed carpets

3/32 x 3/32 x 3/32 V notch

125 sq. ft. /gal

### rough backed carpets

1/8 x 1/8 x 1/8 U notch

100 sq. ft. /gal

The proper trowel notch will depend upon the sub-floor roughness and porosity, as well as, the texture of the carpet backing. A larger notched trowel may be required to apply the appropriate quantity of adhesive. Maintain the proper trowel notch throughout the entire installation. Follow the carpet manufacturer's recommendations regarding the proper trowel notch to use.

## 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 carpet/turf manufacturer and AAT. The sub-floor should be prepared according to the standards and practices set forth in the document ASTM F-710-08.*

1. Flooring and adhesive must be stored in a preheated building where room temperature should be no less than 65°F for a minimum of 24 hours before the installation begins. Do not use when the substrate or ambient temperature is below 65°F or above 95°F. The temperature must not fall below 40°F once the installation begins and for at least 48 hours after the installation is completed.
2. For indoor installations concrete sub-floors must be dry with moisture emission rates that do not exceed 5 lbs. /1000 sq. ft. /24 hrs. as measured by using the Anhydrous Calcium Chloride Test (ASTM-F1869-04). The relative humidity of the slab must be 75% or less according to ASTM-F2710-02). The pH must be 7.0-9.0.
3. The sub-floor must be cleaned, free of dust, dirt, grease, wax, paint, oil, curing or parting agents, loose particles or any substance that may affect the bond. Very porous sub-floors must be primed with AAT-570. .
4. Allow approximately 10-15 minutes open time before placing the carpet. Temperature, relative humidity and wind speed will affect the tack and working time of the adhesive. Occasionally, lift the carpet to assure that a 100% adhesive transfer is achieved. If used outdoors excessive air movement can accelerate the drying speed of the adhesive. Do not allow the adhesive to skin over before placing the carpet. If the adhesive skins over reapply adhesive before placing the carpet
5. Seal seams and edges with AAT-125 Seam Adhesive to prevent raveling and to maintain the appearance of the carpet.
6. Roll completed installation in north-south and east-west directions to insure proper adhesive transfer and to remove trapped air. Use a 75lb, three section roller.



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# MATERIAL SAFETY DATA SHEET

## NPCA HMIS

H = 1  
F = 0  
PH = 1

Prepared by: Howard Burchett, Jr.  
Date of Prep: 04/02/09

## 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-290  
**Trade Name:** Indoor Outdoor Adhesive

## 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:** 27-32%  
**VOC Emission:** 0 g/l (calculated per SCAQMD Rule 1168)

## SECTION IV — FIRE AND EXPLOSION HAZARD DATA

**DOT Category:** Non-Flammable  
**Flash Point:** NA  
**LEL:** Not Known  
**Extinguishing Media:** Water mist, dry chemical, CO<sub>2</sub>, mechanical foam  
**Unusual Fire and Fighting Hazards:** Dried adhesive will not ignite. Dried adhesive could ignite if exposed to ignition source, producing CO, CO<sub>2</sub>, smoke and hydrocarbons.  
**Special Fire Fighting Procedures:** None (See above)

## 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. Acute – Eye, nose and throat irritation  
**Emergency and First Aid Procedures:** EYES – Flush with large amounts of water, lifting upper & lower lids occasionally. INGESTION – If swallowed, call a physician.

## SECTION VI — REACTIVITY DATA

**Stability:** Stable  
**Incompatibility:** (Materials to avoid)  
**Conditions to avoid:** Closed area with open container, strong acids or oxidants, temperatures below 15°F.  
**Hazardous Decomposition Products:** None  
**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:** 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.  
Shelf life – one year from date of manufacture in an unopened container.  
**Other precautions:** Keep from freezing. If frozen DO NOT agitate or stir until adhesive is completely thawed at room temperature. Keep sealed when not in use.