



Advanced Adhesive Technologies, Inc.

AAT-460 Dual Purpose Ceramic Tile Adhesive Type I Specification Sheet

Description:

AAT Dual Purpose Ceramic Tile Adhesive 460 is a creamy, white acrylic-based adhesive designed for the interior installation of ceramic or marble tile (see Limitations) over walls, floors and countertops.

Uses: Interior Substrates (Interior Use only)

Walls – Cementitious backer units, gypsum wallboard: water resistant gypsum wallboard (for wet areas): cured portland cement plaster and well cured, dry concrete. **Countertops** – For countertops where a thin bed method is desired, follow TCA Installation Detail C512. **Floors** - For residential installations over the following substrates: exterior grade plywood [APA Grade Trademarked Exterior C-C (plugged) or better; interior floors only; 1 1/8" total minimum thickness; installed in accordance with ANSI AN-3,4], cementitious backer units well cured, only dry concrete on, above or below grade.

Directions

1. The substrate must be structurally sound, clean, dry and plumb. Remove all grease, sealers, dirt, wallpaper, etc. Scarify all painted surfaces; loose or "squeaky" floor boards should be glued, nailed or screwed down tightly.
2. All tiling materials, room and adhesive should be at a minimum 50°F for 24 hours before and 48 hours after installation.
3. For best results, pre-measure and pre-cut all tile prior to spreading adhesive.
4. Apply adhesive to the substrate with pressure using the flat side of the trowel to promote a good mechanical bond. Then, comb the surface using the proper notched trowel to attain an even setting bed. Press or twist individual tile sheets into adhesive, using care to maintain accurate joint alignment and spacing.
5. Tapping tiles with a rubber faced tapping block to promote 100% coverage of tiles with adhesive, avoiding air pockets under the tile. Proper installation requires a minimum of 1/32" continuous layer of adhesive between the tile and substrate, after tap-in.
6. Apply tiles within 30-45 minutes after spreading adhesive. Do not set tiles after a skin has formed on the adhesive: scrape off dried material and apply fresh adhesive.
7. Remove fresh adhesive from face of the tile with warm, soapy water. Dried adhesive must be removed with mineral spirits or AAT-197 Adhesive Remover.
8. Tile may be grouted as soon as adhesive is set and tiles are held firmly in place, typically after 24 hours for 4 1/4" wall tiles. 6"x6" floor tiles or larger usually require at least 24 hours to set.

NOTE: Colder temperatures, high humidity, use of large vitreous tiles (6"x6" or larger), non-breathing back-ups will extend set times.

Limitations:

Not for exterior use. **Do not use for setting fixtures, green marble or light-colored marble.** For green marble, use 100% Solids Epoxy Mortar. For light colored marble, contact Technical Service for recommendations. Do not use over surfaces such as strip wood floors, tempered hardboard, pressboard, cement asbestos board, particle board, synthetic flooring (Linoleum, asphalt and vinyl tile) or similar unstable substrates. Do not use for underwater application or where hydrostatic pressure, or moisture emission rates are high (not to exceed 3lbs./1000 sq ft/24hr period). The substrate pH must be in the range of 5-9. Do not use for floor applications of tiles with lugs; use thin set mortars. **Not for use with floor tiles larger than 8'x8'.**



Approximate Coverage / Trowel Sizes:

- **Up to 6" x 6"** included ceramic mosaics, standard wall tile, flat back and vitreous 3/16" x 5/32" v-notch trowel 41-48 square feet per gallon.
- **Walls 6" x 6" to 12" x 12"**
Floors 6" x 6" to 8" x 8" including: ceramic, vitreous, monocottura and quarry 1/4" x 1/4" x 1/4" square notch trowel 25-30 square feet per gallon.
- **Heavy tile (walls only)** including: heavy ceramic, vitreous, natural stone, marble, slate and pavers 1/4" c 3/8" x 1/4" square notch trowel 20-25 square feet per gallon.

Coverages will vary with the absorption of substrate and trowel size.

Warranty:

AAT products are manufactured to rigid Quality Control Specification and warranted to be free of defects. Defective Product brought to our attention within one year of manufacture will be replaced at no charge to our customer. Complete warranty information can be obtained by calling 800-AAT-GLUE and requesting a copy or by visiting our Website at www.aatglue.com.



MATERIAL SAFETY DATA SHEET

FOR COATINGS, RESINS, AND RELATED MATERIALS

(Approved by U.S. Department of Labor "Essentially Similar" to Form OSHA-20)

Date of Preparation: September 16, 2007 (replaces 01.01.03)

Prepared By: Tim Brown

NPCA HMIS III
H = 1
F = 0
Ph = 1

SECTION I

MANUFACTURER: Advanced Adhesive Technologies, Inc.

STREET ADDRESS: 424 South Spencer Street **CITY, STATE & ZIP CODE:** Dalton, GA 30721

EMERGENCY TELEPHONE NO.: 8am-5pm ET 800-228-4583

PRODUCT CLASS: Ceramic Adhesive

MANUFACTURER'S CODE IDENTIFICATION: AAT-460

TRADE NAME: Ceramic Tile Adhesive Type I

SECTION II-Hazardous Ingredients

Component / CAS #	NTP/IARC/ OSHA CARC	PERCENT by Weight	ACGIH TLV	OSHA PEL
Ethylene Glycol / 107-21-1	NO	2 - 3.5	50ppm	50 ppm

SECTION III-PHYSICAL DATA

BOILING RANGE: >212°F **VAPOR DENSITY:** HEAVIER LIGHTER THAN AIR

EVAPORATION RATE: FASTER SLOWER THAN ETHER

PERCENT VOLATILE BY VOLUME: 30% ± 2% **WEIGHT PER GALLON:** 12 ± 0.5 lbs.

VOC EMISSION: GR/L=55 (CALCULATED)

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 EXPLOSION 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: NONE ESTABLISHED

EFFECTS OF OVEREXPOSURE: Wet-light headedness, nausea, mild dermatitis. Dry-None.
Acute-eye, nose, and throat irritation.

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: UNSTABLE STABLE

INCOMPATIBILITY: (MATERIALS TO BE AVOIDED)

CONDITIONS TO AVOID: Closed area with open container.

HAZARDOUS DECOMPOSITION PRODUCTS: NONE

HAZARDOUS POLYMERIZATION: MAY OCCUR WILL NOT OCCUR

CONDITIONS TO AVOID: Strong acids or oxidants, temperatures below 35°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 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 unopened container.

OTHER PRECAUTIONS: Keep sealed when not in use. Keep from freezing. If frozen allow to thaw at room temperature. Do NOT agitate or stir while frozen.