

Technical Data Sheet [TDS] AAT-370 Ultra Premium Clear Thin Spread Adhesive

AAT's *Go2 Adhesive* formulas have been formulated to ensure superior adhesive performance under the very demanding conditions commonly found in today's fast paced construction. AAT-370 raises the bar for the performance of clear thin spread adhesives. This acrylic enhanced formula means that contractors may install vinyl composition (VCT) and asphalt tile over concrete subfloors with elevated moisture emissions and in situ relative humidity levels. The CRI Green-label Plus Adhesive Certification Program has certified AAT-370 as a "low VOC" adhesive.

AAT-370 is a ultra premium, professional adhesive that dries quickly and has a long lasting grab for the installation of vinyl composition tile (VCT), asphalt tile, and AAT approved carpet cushions (urethanes, synthetic fiber, rubber sponge). This acrylic enhanced adhesive dries to a transparent film allowing lay-out lines to remain visible. AAT-370 is "installer friendly" and "solvent free." AAT-370 spreads easily, has an extended working time, is outstandingly water resistant, and nonflammable. 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.



This adhesive can be used over smooth, flat, and structurally sound sub-floors including concrete slabs (above, on, or below grade) and suspended wood sub-floors covered by an acceptable underlayment. All sub-floors must be flat and structurally sound. The sub-floor should be flat within 3/16" in 10' or 1/8" in 6'. 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 underlayment. Concrete sub-floors must be properly prepared according to the recommended practices detailed in the document ASTM F-710. Concrete slabs on or below grade must be protected from ground moisture with a functioning and intact Class A vapor retarder that conforms to the requirements of ASTM E1745. This vapor retarder must be directly beneath, and in contact with, the slab. The sub-floor's maximum moisture emission rate cannot exceed 8lbs/1000 sq.ft./24 hours and have a maximum *in situ* RH of 95%. Moisture testing must be performed in accordance with ASTM F1869 and ASTM F2170, respectively. Slabs poured on metal decks and above grade structural concrete floors must also meet these requirements. The pH of all sub-floors should be between 7.0- 9.0 [ASTM F710]. 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 Acrylic Primer.

- Concrete above, on or below grade
- APA rated plywood underlayment
- Properly prepared gypsum cement

NOTE: Particleboard and OSB are **not** recommended underlayments. Strip or plank wood flooring, particleboard and OSB sub-floors should be covered with an approved plywood underlayment (minimum thickness of ½"). Before beginning installations with flooring and cushion types or over sub-floors not listed contact AAT Technical Services for recommendations. AAT-370 cannot be used if adhesive removers, solvent or chemical cleaners have been used. While some Lauan plywood panels are widely marketed as "underlayments", there are a variety of qualities and species sold as such. Some varieties present severe problems when used as underlayments. Frequent problems noted are discoloration, indentation, bond failure, and underlayment delamination. AAT will not warrant the adhesive when applied over Lauan plywood. Regulations may require that existing flooring material or coatings be tested to determine the asbestos content. Refer to the instructions for removal and handling of resilient flooring published by the RFCI in the publication, *Recommended Work Practices for Removal of Resilient Floor Coverings*. The Resilient Floor Covering Institute may be reached thru their Website www.rfci.org or by calling 301-340-8580.

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

VCT, Asphalt tile over porous sub-floors: 1/32" x 1/16" x 1/32" U or \square notch trowel: 180-250 sq ft/gal and over non-porous sub-floors: 1/32" x 1/32" x 1/32" \square notch trowel: 300-350 sq ft/gal.

Carpet cushions: 1/16" x 1/16" x 1/16" □ notch trowel: 125-150 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.
- 3. Refer to the information above for specific information regarding sub-floor preparation and site conditions.
- 4. When installing VCT and asphalt tile spread the AAT-370 with the appropriate trowel and allow the adhesive to dry to a clear, tacky state. Place the tile into the dry, pressure sensitive adhesive.
- 5. For use with carpet cushion, spread the adhesive with the appropriate trowel and allow it to develop tack. DO NOT allow the adhesive to "skin-over" or dry. Place the cushion into the "wet-tacky" adhesive while the adhesive is still wet enough to transfer to the back of the flooring.
- 6. Roll the installed VCT with a 75-100lb, three-section roller. Rolling should take place immediately after the flooring is placed into the adhesive.
- 7. It is recommended to minimize traffic over the newly installed flooring for at least 24 hours after the installation has been completed. Do not wash or clean the floor for five days after completion of the installation. To replace furniture and appliances use plywood panels to protect the flooring.

Specific Technical Data:

- A. Base: Acrylic enhanced SBR emulsion
- B. Color: light tan
- C. 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.
- D. Packaging: 4 gallon pails and one gallon pails (4 per case)
- E. Shelf-Life: Minimum of one year from date of manufacture in un-opened container when stored at 70°F.
- F. Freeze-Thaw Stable to 15°F. Stability and spread-ability can be affected if allowed to freeze. Frozen material should be allowed to thaw at room temperature. DO NOT agitate or stir while frozen.
- G. VOCs: 0 g/l (Calculated per Ca. Rule 1168)
- H. Not recommended for exterior installations.

NOTE: We recommend installers follow the guidelines set forth in the flooring manufacturer's specific recommendations. Before placing the flooring, the adhesive must be allowed an open or dwell time appropriate for the flooring product, jobsite and sub-floor conditions. AAT-370 has an extended working time up to 24 hours after the initial drying if the area is kept dust free. 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 backing of the flooring to include the inner recesses of the texture of the back.



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1 Identification

· Product identifier

· Trade name: AAT-370

· Details of the supplier of the safety data sheet

· Manufacturer/Supplier:

Advanced Adhesive Technologies 424 South Spencer Street

Dalton, GA 30721 +1 (800) 228-4583

· Emergency telephone number:

CHEMTREC USA +1 (800) 424-9300 & INTERNATIONAL +1 (703) 527-3887

2 Hazard(s) identification

· Classification of the substance or mixture



GHS08 Health hazard

Carc. 2 H351 Suspected of causing cancer.



GHS07

Skin Sens. 1 H317 May cause an allergic skin reaction.

- · Label elements
- · GHS label elements

The product is classified and labeled according to the Globally Harmonized System (GHS).

· Hazard pictograms





GHS07 GHS08

- · Signal word Warning
- · Hazard-determining components of labeling:

1,2-benzisothiazol-3(2H)-one

ethyl acrylate

Hazard statements

May cause an allergic skin reaction.

Suspected of causing cancer.

· Precautionary statements

Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood.

Avoid breathing dust/fume/gas/mist/vapors/spray

Contaminated work clothing must not be allowed out of the workplace.

Wear protective gloves/protective clothing/eye protection/face protection.

If on skin: Wash with plenty of water.

IF exposed or concerned: Get medical advice/attention.

Specific treatment (see on this label).

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If skin irritation or rash occurs: Get medical advice/attention.

Wash contaminated clothing before reuse.

Store locked up.

Dispose of contents/container in accordance with local/regional/national/international regulations.

- Classification system:
- NFPA ratings (scale 0 4)



Health = 0 Fire = 0 Reactivity = 0

· HMIS-ratings (scale 0 - 4)



Health = 0
 Fire = 0
 Reactivity = 0

- · Other hazards
- · Results of PBT and vPvB assessment
- PBT: Not applicable.vPvB: Not applicable.

3 Composition/information on ingredients

- · Chemical characterization: Mixtures
- · **Description:** Mixture of the substances listed below with nonhazardous additions.

· Dangerou	s components:	
1332-58-7	Kaolin	22.48%
140-88-5	ethyl acrylate	0.836%
2634-33-5	1,2-benzisothiazol-3(2H)-one	0.08%

4 First-aid measures

- · Description of first aid measures
- · After inhalation:

Supply fresh air and to be sure call for a doctor.

In case of unconsciousness place patient stably in side position for transportation.

- · After skin contact: Immediately wash with water and soap and rinse thoroughly.
- After eye contact: Rinse opened eye for several minutes under running water.
- · After swallowing: If symptoms persist consult doctor.
- Information for doctor:
- Most important symptoms and effects, both acute and delayed

No further relevant information available.

· Indication of any immediate medical attention and special treatment needed No further relevant information available.

5 Fire-fighting measures

- Extinguishing media
- Suitable extinguishing agents: Use fire fighting measures that suit the environment.
- · Special hazards arising from the substance or mixture No further relevant information available.

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- Advice for firefighters
- · Protective equipment: No special measures required.

6 Accidental release measures

- · Personal precautions, protective equipment and emergency procedures Not required.
- · Environmental precautions:

Dilute with plenty of water.

Do not allow to enter sewers/ surface or ground water.

Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Dispose contaminated material as waste according to item 13.

Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

· Protective Action Criteria for Chemicals

· PAC-1:		
64742-52-5	Distillates (petroleum), hydrotreated heavy naphthenic	140 mg/m³
140-88-5	ethyl acrylate	8.3 ppm
57-13-6	urea	30 mg/m³
9016-45-9	nonylphenolethoxylates	43 mg/m³
· PAC-2:		
64742-52-5	Distillates (petroleum), hydrotreated heavy naphthenic	1,500 mg/m ³
140-88-5	ethyl acrylate	36 ppm
57-13-6	urea	280 mg/m ³
9016-45-9	nonylphenolethoxylates	470 mg/m ³
· PAC-3:		
64742-52-5	Distillates (petroleum), hydrotreated heavy naphthenic	8,900 mg/m ³
140-88-5	ethyl acrylate	240 ppm
57-13-6	urea	1,700 mg/m ³
9016-45-9	nonylphenolethoxylates	5,400 mg/m ³

7 Handling and storage

- Handling:
- · Precautions for safe handling No special precautions are necessary if used correctly.
- · Information about protection against explosions and fires: No special measures required.
- · Conditions for safe storage, including any incompatibilities
- · Storage:
- Requirements to be met by storerooms and receptacles: No special requirements.
- Information about storage in one common storage facility: Not required.
- · Further information about storage conditions: None.
- · Specific end use(s) No further relevant information available.

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8 Exposure controls/personal protection

- · Additional information about design of technical systems: No further data; see item 7.
- · Control parameters
- · Components with limit values that require monitoring at the workplace:

1332-58-7 Kaolin

PEL Long-term value: 15* 5** mg/m³
*total dust **respirable fraction

REL Long-term value: 10* 5** mg/m³

REL Long-term value: 10* 5** mg/m³
*total dust **respirable fraction
TLV Long-term value: 2* mg/m³

E; as respirable fraction

140-88-5 ethyl acrylate

PEL Long-term value: 100 mg/m³, 25 ppm

Skin

REL See Pocket Guide App. A

TLV Short-term value: 61 mg/m³, 15 ppm Long-term value: 20 mg/m³, 5 ppm

- · Additional information: The lists that were valid during the creation were used as basis.
- Exposure controls
- · Personal protective equipment:
- · General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

- · Breathing equipment: Not required.
- Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· Eye protection: Goggles recommended during refilling.

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Information on basic physical and General Information	onomical properties
Appearance:	
Form:	Fluid
Color:	According to product specification
Odor:	Characteristic
Odor threshold:	Not determined.
pH-value:	Not determined.
Change in condition	
Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	100 °C (212 °F)
Flash point:	Not applicable.
Flammability (solid, gaseous):	Not applicable.
Decomposition temperature:	Not determined.
Auto igniting:	Product is not selfigniting.
Danger of explosion:	Product does not present an explosion hazard.
Explosion limits:	
Lower:	Not determined.
Upper:	Not determined.
Vapor pressure at 20 °C (68 °F):	23 hPa (17.3 mm Hg)
Density:	Not determined.
Relative density	Not determined.
Vapor density	Not determined.
Evaporation rate	Not determined.
Solubility in / Miscibility with	
Water:	Fully miscible.

· Viscosity:

Dynamic: Not determined. **Kinematic:** Not determined.

· Solvent content:

Water: 26.3 % **VOC content:** 0.00 %

0.0 g/l / 0.00 lb/gl

• Other information No further relevant information available.

10 Stability and reactivity

- · Reactivity No further relevant information available.
- · Chemical stability
- Thermal decomposition / conditions to be avoided:

No decomposition if used according to specifications.

Possibility of hazardous reactions No dangerous reactions known.

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- · Conditions to avoid No further relevant information available.
- · Incompatible materials: No further relevant information available.
- · Hazardous decomposition products: No dangerous decomposition products known.

11 Toxicological information

- · Information on toxicological effects
- · Acute toxicity:

· I D/I (C50 val	ies that a	e relevant	for	classi	fication:
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140-88-5 ethyl acrylate

Oral	LD50	800 mg/kg (rat)
Dermal	LD50	1,834 mg/kg (rabbit)
Inhalative	LC50/4 h	2,180 mg/l (rat)

- · Primary irritant effect:
- on the skin: No irritant effect.
- · on the eye: No irritating effect.
- · Sensitization: Sensitization possible through skin contact.
- · Additional toxicological information:

The product shows the following dangers according to internally approved calculation methods for preparations:

İrritant

· Carcinogenic categories

· IARC (International Agency for Research on Cancer)

140-88-5 ethyl acrylate

2B

· NTP (National Toxicology Program)

None of the ingredients is listed.

· OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

12 Ecological information

- · Toxicity
- · Aquatic toxicity: No further relevant information available.
- · Persistence and degradability No further relevant information available.
- · Behavior in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- · Mobility in soil No further relevant information available.
- Additional ecological information:
- · General notes:

Water hazard class 3 (Self-assessment): extremely hazardous for water

Do not allow product to reach ground water, water course or sewage system, even in small quantities.

Danger to drinking water if even extremely small quantities leak into the ground.

- · Results of PBT and vPvB assessment
- · **PBT:** Not applicable.
- vPvB: Not applicable.
- Other adverse effects No further relevant information available.

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13 Disposal considerations

- · Waste treatment methods
- · Recommendation:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

· Uncleaned packagings:

14 Transport information

- · Recommendation: Disposal must be made according to official regulations.
- · Recommended cleansing agent: Water, if necessary with cleansing agents.

14 Hansport Information		
· UN-Number · DOT, ADN, IMDG, IATA	not regulated	
· UN proper shipping name · DOT, ADN, IMDG, IATA	not regulated	
· Transport hazard class(es)		
· DOT, ADN, IMDG, IATA · Class	not regulated	
· Packing group · DOT, IMDG, IATA	not regulated	

· Environmental hazards: Not applicable. · Special precautions for user Not applicable. · Transport in bulk according to Annex II of

MARPOL73/78 and the IBC Code

Not applicable.

UN "Model Regulation": not regulated

15 Regulatory information

· Safety, health and environmental regulations/legislation specific for the substance or mixture

•	c Substances Control Act):
1332-58-7	Kaolin
68131-77-1	Petroleum Hydrocarbon Resin
64742-52-5	Distillates (petroleum), hydrotreated heavy naphthenic
140-88-5	ethyl acrylate
57-13-6	urea
9016-45-9	nonylphenolethoxylates
	1,2-benzisothiazol-3(2H)-one
7732-18-5	water, distilled, conductivity or of similar purity

Proposition 65

 Chemicals known to ca 	iuse cancer:
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140-88-5 ethyl acrylate

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(Contd. of page 7) · Chemicals known to cause reproductive toxicity for females: None of the ingredients is listed. · Chemicals known to cause reproductive toxicity for males: None of the ingredients is listed. · Chemicals known to cause developmental toxicity: None of the ingredients is listed. · Carcinogenic categories · EPA (Environmental Protection Agency) 57-13-6 urea Ш TLV (Threshold Limit Value established by ACGIH) 1332-58-7 Kaolin A4 140-88-5 ethyl acrylate A4 · NIOSH-Ca (National Institute for Occupational Safety and Health)

· GHS label elements

140-88-5 ethyl acrylate

The product is classified and labeled according to the Globally Harmonized System (GHS).

Hazard pictograms





GHS07 GHS08

- · Signal word Warning
- · Hazard-determining components of labeling:
- 1,2-benzisothiazol-3(2H)-one ethyl acrylate
- Hazard statements

May cause an allergic skin reaction.

Suspected of causing cancer.

Precautionary statements

Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood.

Avoid breathing dust/fume/gas/mist/vapors/spray

Contaminated work clothing must not be allowed out of the workplace.

Wear protective gloves/protective clothing/eye protection/face protection.

If on skin: Wash with plenty of water.

IF exposed or concerned: Get medical advice/attention.

Specific treatment (see on this label).

If skin irritation or rash occurs: Get medical advice/attention.

Wash contaminated clothing before reuse.

Store locked up.

Dispose of contents/container in accordance with local/regional/national/international regulations.

· Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

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· Department issuing SDS: Technical Department

· Contact: Technical Director

· Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the

International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

ACGIH: American Conference of Governmental Industrial Hygienists

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

VOC: Volatile Organic Compounds (USA, EU)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative

NIOSH: National Institute for Occupational Safety

OSHA: Occupational Safety & Health

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

Skin Sens. 1: Skin sensitisation - Category 1

Carc. 2: Carcinogenicity - Category 2