

Technical Data Sheet [TDS]

AAT-692 Polymer Wood Flooring Adhesive

AAT-692 is an advanced formula polymer designed for professional wood flooring installation of engineered wood flooring, parquet and acoustic underlayments. It replaces isocyanate-containing urethane adhesives. It is ozone and environmentally safe and contains no hazardous materials. Because there is no water or solvent present, it will not cause cupping or expansion of the wood flooring. This adhesive is waterproof when fully cured and will not dissolve if it gets wet. However, it will not prevent moisture-related damages to wood flooring.

The adhesive spreads easily and has a non-slump formula that will help insure contact and adhesive transfer. It allows fast installation even with complicated patterns due to its strong green grab. There is no flash time required, so installation can begin immediately. It offers superior flexibility and is designed to keep the flooring in place, yet allow for normal movement during seasonal changes to the flooring. This adhesive qualifies for LEED credits.

Prior to the start of the installation the installer must determine that the job-site conditions meet or exceed all applicable standards of the wood flooring manufacturer and AAT. For the best results, we suggest using a National Wood flooring Association Certified Professional installer. Installation of hardwood flooring should be one of the last jobs of any construction project. The sub-floor should be prepared according to the standards and practices set forth in the most recent version of the document ASTM F-710.

For assistance with specific sub-floors and exotic wood species please contact our Technical Services Department. <u>DO NOT install solid wood flooring below grade</u>. AAT-692 is not for use with wood flooring manufactured from strand woven Bamboo, Kempas or Teak wood. AAT-692 cannot be used if adhesive removers, solvent or chemical cleaners have been used. For a copy of the Limited Lifetime Warranty please contact Customer Service.

Site Conditions:

The building should be completely enclosed. All outside doors and windows should be properly installed with latching mechanisms in place.

Landscaping should be sufficiently completed to direct water away from the building. Gutters and downspouts should be in place.

All concrete, masonry, plastering, drywall and other wet work should be completed and thoroughly dry prior to beginning the installation. Texturing and paint primer coats should be completed. Where possible the installation of the base molding should not take place until after the wood flooring has been installed.

Adequate ventilation should be available. The HVAC system for the building should be operating for a minimum of 72 hours prior to the start of the installation. The flooring should not be exposed to extremes of temperature, humidity or moisture. The installation site should have a consistent air temperature of 50°F-90°F and relative humidity levels should be 30% - 80% for a minimum of 72 hours prior to the start of the installation. The temperature of the sub-floor should be between 65°F-

85ºF. These conditions must be maintained to ensure long-term success and performance of the wood flooring installation.

Basements and crawl spaces should be dry and adequately ventilated. Sub-floors must be checked for moisture content and emissions using industry accepted methods. Crawl spaces should meet local building codes regarding minimum heights, cross ventilation and the use of vapor retarders.

Sub-floors must be free from dust, dirt, grease, wax, curing agents, sealers, oil and any other bond inhibiting substances. The sub-floor should be flat within 3/16" in 10' or 1/8" in 6'. Please note that popping wood floors or a hollow spot(s) in a hardwood flooring installation is not an adhesive related issue. Rather, these conditions result from the lack of sufficient sub-floor preparation.

Prior to the application of AAT-692, sub-floors must be tested in strict accordance to the most recent versions of ASTM F-1869 and F-2170. Both testing protocols must be performed in order to provide the most accurate view of the sub-floor's condition. Sub-floors of lightweight concrete must be tested in strict accordance to the most recent version of ASTM F-2170. The placement of calcium chloride kits and humidity probes must follow the ASTM standards for proper locations and the correct quantity of test sites. These and other tests may be performed by AAT in the event of a warranty claim.

Sub-floors on and below grade must be protected from ground moisture with a functioning and intact Class A vapor retarder that conforms to the requirements of the most current version of ASTM E-1745. This vapor retarder must be directly beneath, and in contact with, the slab. *No moisture testing is* required for installation of engineered wood floor as long as a new #12 clip-on blade is used for every pail, there is 100% coverage of the adhesive on the subfloor, the spread rate does not exceed 35 SF/gal and *concrete floors are at least 30 days old.* For adhesive only applications, concrete must be dry with moisture emission rates 3 lbs. /1000 sq ft/24 hrs, as measured by the Anhydrous Calcium Chloride Test, ASTM F-1869. Lightweight concrete and gypsum cement can only be tested according to the requirements of ASTM F-2170. For gypsum cement, densified and lightweight concrete the *in situ* relative humidity should not exceed 75%. Before any moisture testing begins, the slab must be cured for a minimum of 30 days and the HVAC system must be operating for a minimum of 72 hours. Fill low areas with a polymer-modified portland cement leveling or patching compound. Leveling and patching compounds must be tested to ensure they are properly cured and within the manufacturer's specified requirements before proceeding with the installation. Mechanical surface profiling is the preferred sub-floor preparation method. Mechanically profile the sub-floor to medium-grit sandpaper texture. Sanding or scouring with open paper or a titanium disk is preferred. All curing agents [topical and admix], adhesives, paints, varnishes, oils, waxes, dust, dirt and any other bond inhibiting substances must be removed. The removal of bond inhibiting substances must be by mechanical means: sanding, shot or bead blasting. AAT-692 cannot be used if adhesive removers, solvent or chemical cleaners have been used. Lightweight concrete and gypsum cement must be primed with AAT-570 Acrylic Primer before applying the adhesive.

For wood joist systems the sub-floor should be structurally sound, free of loose panels or boards, and free of protruding fasteners. Moisture content should be within normal industry standards for the areas average environmental conditions. Underlayment panels should be fastened according to the manufacturer's specifications. All panel seams should be sanded level and prepared according to the manufacturer's instructions. Sanded and other very porous substrates must be primed with AAT-570 Acrylic Primer. Minimum sub-flooring: 5/8" CDX plywood sub-floor/underlayment (Exposure 1), maximum 16" o.c. construction. Install the flooring perpendicular to the floor joists. Moisture content of wood sub-floors should be below 6-9% when measured with a moisture meter for wood. Moisture content of the sub-floor and the wood flooring should vary no more that 4%. Do not use AAT-692 to install flooring over AdvanTech® plywood panels.

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Wood flooring may be installed over existing ceramic tile and terrazzo floors. All grout joints and broken tiles must be filled with a polymer-modified, portland cement leveling or patching compound. Surfaces should be cleaned and abraded to ensure a proper bond. Ceramic tiles must be securely fastened to the sub-floor. Loose tiles must be replaced or repaired. Ceramic and terrazzo sub-floors must be free from dust, dirt, grease, wax, sealers, oil and any other bond inhibiting substances.

Wood flooring may be installed over full spread, permanently bonded acoustic cork. Cork thickness should not exceed 1/4"(6mm) and should have a density between 11.4 and 13 lb. /cubic foot. Install cork in accordance with manufacturer's recommendations. Acoustic cork should be pure cork with a polyurethane binder.

Slabs with a radiant heating system are acceptable sub-floors for installing wood floors with the following stipulations. The heating system should be fully operational for a minimum of seven days prior to the installation. The system should be shut down to allow the slab to cool down to room temperature before applying the adhesive. Immediately after completing the installation turn the system back on and set to normal temperature. The sub-floor cannot exceed 85°F throughout the life of the installation. Check with the system manufacturer to determine that the system is designed for the desired R-rating for wood flooring. Failure to ensure proper system design can result in excessive heat damage and wood shrinkage.

NOTE: Prior to the beginning of the installation the wood flooring, adhesive and sub-floor must be acclimated in an enclosed building with the HVAC operating for a minimum of 72 hours. Wood flooring must be exposed to the air when being acclimated.

INSTALLATION:

- 1. Follow wood flooring manufacturer's instructions for acclimation, layout, requirements for expansion space and any special precautions for the installation.
- 2. Apply adhesive with the recommended trowel. (See below) A 100% adhesive transfer rate to the wood flooring is required. There is no flash time, so installation should begin immediately. Lay the flooring into the adhesive, correctly position it and press down firmly. Rolling is neither required nor recommended.
- 3. Occasionally lift a piece of flooring to assure that a 100% adhesive transfer is achieved.

Open Times	+50°F	+70°F	+90°F
30% Relative Humidity	150 minutes	105 minutes	60 minutes
50% Relative Humidity	120 minutes	75 minutes	50 minutes
80% Relative Humidity	90 minutes	60 minutes	45 minutes

- 4. Leave appropriate expansion space around the perimeter of the room and at any stationary objects.
- 5. If plank is bowed or warped, use weights or nails to ensure flooring is in full contact with the adhesive during the adhesive curing process. Excessively bowed or warped planks should be culled prior to installing the flooring.
- 6. Furniture placement and foot traffic should be restricted for a minimum of 24 hours. [continued on next page]

TROWEL RECOMMENDATIONS:**

Engineered Wood Floors 3/16" X 1/4" x 5/16" V notch 50-60 sq ft/gal As Moisture Barrier with #12 Trowel Blade 1/8" x 5/32" x 3/16" x 5/64" V notch with pins 30-35 sq ft/gal

Parquet 1/8" x 1/8" x 1/8" ∐ notch 70-80 sq. ft. /gal.

Acoustical Underlayments 3/32" x 3/32" x 3/32" V notch 100-110 sq. ft./gal.

Note: Trowel Notch dimensions are Width x Depth x Separation

SPECIFIC TECHNICAL DATA:

- 1. VOC compliant, LEED qualified formula; no chlorinated solvents, no isocyanates, nonflammable
- 2. Shear strength: 290 psi
- 3. Water Vapor Permeability [ASTM E-96]: 0.22 perms * inches
- **4.** Clean-Up: Remove uncured adhesive with acetone. Do not apply the acetone directly to the flooring material. Test on a scrap piece of flooring to ensure that the solvent does not affect the floor's finish. Cured adhesive can be removed with a plastic scrapper and a clean towel.
- 5. Packaging: 3 gallon pails; 48 per pallet
- 6. Shelf-Life: 12 months from date of manufacture in un-opened container when stored at 70°F.
- 7. Freeze-Thaw Stable

June 15, 2020



Printing date: 26.10.2020

USA

Reviewed on: 26.10.2020





Reviewed on: 26.10.2020

Printing date: 26.10.2020

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Health 0		
Fire 1	Health = 0 Fire = 1	
Reactivity 0	Reactivity = 0	
Health = 0		
Fire = 1		
Reactivity		
 2.3 Other haz Besults of PB 	aros RT and vPvB assessment	
• PBT:		
Not applicable).	
 vPvB: Not applicable 		
03 Compositic	on/information on ingredients	
• 3.2 Mixtures		
Description:		£11
1-component a	adhesive based on silane-terminated polyether and	filler
Dangerous co	omponents:	
CAS Number		%
05000 60 4	Polypropylenealycol	5 00- 12 50
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- No special measures required.
- Protective equipment:



Reviewed on: 26.10.2020

Printing date: 26.10.2020

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- Mouth respiratory protective device. Do not inhale explosion gases or combustion gases.
- Additional information
 - Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

06 Accidental release measures

- 6.1 Personal precautions, protective equipment and emergency procedures Ensure adequate ventilation Wear protective clothing.
- 6.2 Environmental precautions: Prevent seepage into sewage system, workpits and cellars. Do not allow to enter sewers/ surface or ground water.
- 6.3 Methods and material for containment and cleaning up: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
- 6.4 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.

07 Handling and storage

- Handling:
- 7.1 Precautions for safe handling Use only in well ventilated areas. Avoid contact with the eyes and skin.
- Information about protection against explosions and fires: No special measures required.
- 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: Keep receptacle tightly sealed. Protect from heat and direct sunlight.
- 7.3 Specific end use(s) No further relevant information available.

08 Exposure controls/personal protection

- Components with limit values that require monitoring at the workplace: The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
 Additional information: The lists that were valid during the creation were used on basis.
 - The lists that were valid during the creation were used as basis.
- Personal protective equipment:
- General protective and hygienic measures: The usual precautionary measures for handling chemicals should be followed. Wash hands before breaks and at the end of work. Avoid contact with the eyes and skin.
- Breathing equipment: Not necessary if room is well-ventilated.
- Protection of hands:
- Material of gloves
- Butyl rubber, BR
- Nitrile rubber, NBR Natural rubber, NR
- Penetration time of glove material



Reviewed on: 26.10.2020

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Printing date: 26.10.2020

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

Eye protection: Safety glasses

Body protection: Protective work clothing

09 Physical and chemical properties

General Information		
Appearance:		
Form:	Fluid	
Color:	Light beige	
Odor:	Weak, characteristic	
Odor threshold:	Characteristic	
pH-value:	Not determined.	
Change in condition		
Boiling point/Boiling range:	240 °C	
Flash point:	224 °C	
Flammability (solid, gaseous):	Not applicable.	
Ignition temperature:	330 °C	
Decomposition temperature:	Not determined.	
Auto igniting:	Not determined.	
Danger of explosion:	Not determined.	
Explosion limits:		
Lower:	Not determined.	
Upper:	Not determined.	
Vapor pressure:	Not determined.	
Density:	1,7000 - 1,8000 g/cm3	
Solubility in / Miscibility with		
Water:	Not determined.	
Viscosity:		
Dynamic:	at 20 °C 50.000 - 90.000 mPa.s	
Solvent content:		
VOC content:	0,00 %	
Solids content:	~ 85,00 %	
9.2 Other information	No further relevant information available.	

10 Stability and reactivity

- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- **10.3 Possibility of hazardous reactions** No dangerous reactions known.
- 10.4 Conditions to avoid
- No further relevant information available.
- 10.5 Incompatible materials:
- No further relevant information available.
- Dangerous reactions
- No dangerous reactions known.
- 10.6 Hazardous decomposition products: Does not decompose when used like intended.
 Additional information:
- On contact with water (or humidity), small amounts of methanol.



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Reviewed on: 26.10.2020

KODUCI:	AAI-092	
1 Toxico	(Contraction)	d. of page 4)
• 11.1 Ac	ute toxicity:	
• LD/LC5	0 values that are relevant for classification:	
25322-69-	4 Polypropyleneglycol	
Orai, LL Dermal	J50: 1000-2000 mg/kg (rat)	
Primary	v irritant effect:	
 on the s 	kin:	
No irrita	int effect.	
 on the e Direct or 	yye: enteet te evee een he irriteting	
Sensitiz	zation:	
No sens	sitizing effects known.	
 OSHA-0 	Ca (Occupational Safety & Health Administration)	
None o	of the ingredients is listed.	
2 Ecolog	ical information	
• 12.1 Aq	uatic toxicity:	
• 12 2 Pe	reistence and degradability	
No furth	er relevant information available.	
 Behavio 	or in environmental systems:	
• 12.3 Bio	paccumulative potential	
No furth	er relevant information available.	
 I2.4 MC No furth 	DDIIITY IN SOIL	
Additio	nal ecological information:	
 General 	I notes:	
Do not a	allow undiluted product or large quantities of it to reach ground water, water course	or sewage
system.	oulto of DPT and vDvP accessment	
• 12.5 ne	Suits of PDT and VPVD assessment	
Not app	licable.	
• vPvB:		
Not app	licable.	
• 12.6 Otl	her adverse effects	
2 Dispos		
• 13.1 Wa	asie ireaiment methods mendation:	
Must no	It be disposed of together with household garbage. Do not allow product to reach s	sewade
system.		
• Unclear	ned packagings:	
Recom	mendation:	
Disposa	al must be made according to official regulations.	

14.1 UN-Number		
DOT	Void	
ADR	Void	
IMDG	Void	
ΙΑΤΑ	Void	
 14.2 UN proper shipping name 		
DOT	Void	
		(Contd. on page 6



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ADR	Void	
IMDG	Void	
ΙΑΤΑ	Void	
 14.3 Transport hazard cla DOT 	ss(es)	
Class	Void	
ADR		
Class	Void	
IMDG		
Class	Void	
ΙΑΤΑ		
Class	Void	
 14.4 Packing group 		
DOT	Void	
ADR	Void	
IMDG	Void	
ΙΑΤΑ	Void	
 14.5 Environmental hazar Not applicable. 14.7 Transport in bulk acc Not applicable 	ds: ording to Annex II of MARPOL73/78 a	nd the IBC Code

15 Regulatory information

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

Sara

- Section 355 (extremely hazardous substances): None of the ingredients is listed.
- Section 313 (Specific toxic chemical listings):
- None of the ingredients is listed.
- TSCA (Toxic Substances Control Act): All ingredients are listed.
- Proposition 65
- Chemicals known to cause cancer: None of the ingredients is listed.
- 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.

Carcinogenic categories

- EPA (Environmental Protection Agency) None of the ingredients is listed.
- NIOSH-Ca (National Institute for Occupational Safety and Health) None of the ingredients is listed.

National regulations:

Water hazard class:

Water hazard class 1 (Self-assessment): slightly hazardous for water.

- Pennsylvania Right-to-Know List: None of the ingredients is listed.
- Pennsylvania Special Hazardous Substance List: None of the ingredients is listed.

• 15.2 Chemical safety assessment:

A Chemical Safety Assessment has not been carried out.



Reviewed on: 26.10.2020

Printing date: 26.10.2020

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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.
Department issuing MSDS:
guality management
Date of preparation / last revision
26.10.2020
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)
fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
IMDG: International Maritime Code for Dangerous Goods
DOT: US Department of Transportation
IATA: International Air Transport Association
ICAO: International Civil Aviation Organisation
GHS: Globally Harmonised System of Classification and Labelling of Chemicals
CAS: Chemical Abstracts Service (division of the American Chemical Society)
NFPA: National Fire Protection Association (USA)
VOC: Volatile Organic Compounds (USA ELI)
L C50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
 * Data compared to the previous version altered.