

Installation Instructions: TAJ Modular Acoustic Flooring

Recommended Adhesives: TAJ 685 Releasable / TAJ 585 Permanent /
TAJ Modular Permanent Spray Adhesive

Job Conditions:

The installation of flooring should be scheduled after the work of all other trades has been completed. Areas to receive resilient flooring shall be clean, adequately lighted, fully enclosed, weather tight, and climate controlled by permanent HVAC system for at least 10 days prior to installation and thereafter to provide a constant temperature. Proper acclimation of the room, substrate, flooring materials and adhesives at a constant and maintainable temperature is critical to the success of the installation process. Temperature variation before during and for the first 48 hours after installation can impact adhesive cure time, affect the size of the flooring material and increase the potential for indentation and or adhesive displacement. The substrate, flooring materials and adhesive are required to be acclimated within the areas of intended installation at a constant temperature between 65°F to 85°F for 48hrs prior to installation. The selected temperature should be maintained in areas to receive flooring with the building's permanent HVAC system.

Salamanders and other temporary heating or cooling devices should not be used. The constant temperature held during acclimation and installation should be maintained for 48 hours following installation, thereafter the interior space should maintain room temperatures in the range of 55 to 85° F. Flooring installed with TAJ 585 adhesive shall not be exposed to heavy traffic or heavy rolling loads for 24 hours following completion. No maintenance procedures should take place until the adhesive has cured for a minimum of 72 hours. Eco Bond and TAJ 685 adhesive allows immediate foot traffic. If emergency conditions require the movement of equipment or furniture, the flooring should be protected with heavy planks or a minimum of ½" thick plywood to prevent damage.

NOTE: Flooring materials and adhesives should be on site with the areas of intended installation a minimum of 48 hours prior to installation allowing materials to acclimate.

Suitable Substrates:

Concrete Substrate: Concrete substrate shall conform to requirements of ASTM F710-05-Standard Practice for Preparing Concrete Floors to Receive Resilient Flooring).

Concrete subfloors shall be steel troweled finished smooth, flat and level. Concrete shall be wet cured for a minimum of 30 days to 3,500 psi. Flatness of concrete shall be $\pm 1/8$ in a 10'-0" radius. Do not apply any type of coatings, surface sealers, hardeners, or curing membranes to the surface of the concrete. These materials will prevent proper bond of the floor covering adhesive. Minor cracks, chips, and spalls shall be patched with cement based patching material, i.e. Ardex or Mapei. Level high spots by grinding or sanding. Any required leveling shall be done with cement-based underlayment, minimum 3,500 psi, i.e., Ardex or Mapei. Patching and underlayment material shall be applied in strict accordance with manufacturer's specifications and installation instructions.

- **TAJ Modular Spray Adhesive:** Maximum 8.0 lbs. of moisture per 1,000 sf / 24 hours per ASTM F1869 Calcium Chloride Tests or a max RH of 90% per ASTM F2170 In Situ Relative Humidity Test. pH of concrete shall be <11.
- **TAJ 585 Adhesive:** Maximum 5.0 lbs. of moisture per 1,000 sf / 24 hours per ASTM F1869 Calcium Chloride Tests or a max RH of 80% per ASTM F2170 In Situ Relative Humidity Test. pH of concrete shall be <9.
- **TAJ 685 Adhesive (Releasable Installations):** Maximum 5.0 lbs. of moisture per 1,000 sf / 24 hours per ASTM F1869 Calcium Chloride Tests or a max RH of 80% per ASTM F2170 In Situ Relative Humidity Test. pH of concrete shall be between 7 and 9.

If the concrete is contaminated with any type of sealer, hardener, curing membrane, paint, oil, grease, adhesives, and any other type of penetrating material it should be removed thoroughly by bead blasting. Sanding is not adequate and chemicals should not be used to accomplish removal. After concrete preparation has been completed, sweep and vacuum surface thoroughly to remove all miscellaneous dirt and contaminants.

Unsuitable substrates:

Particleboard, chipboard, flake board, hard board, soft or lightweight aggregate concrete, or gypsum are not the most suitable substrates for installation of vinyl flooring and must use only TAJ Modular Spray Adhesives under ideal circumstances only. Minimum 3/8" thick APA graded plywood, properly installed, is a suitable underlayment. Contact us for recommendations regarding all other types of substrates.

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Hospital Beds:

In the event that Lay Flat is to be used in patient rooms the area under the beds must be installed using the recommend Eco Bond Adhesive System. (no substitutions) This adhesive will tolerate point loads within 4 hours of installations.

Layout:

Establish chalk guidelines, which are at right angles to each other from which the tile/planks are to be laid. Measure the area to find the best starting point for maximum size perimeter cuts.

If installed over raised access panels, layout tiles to cover the seam of the access floor panel first.

Installation:

Before beginning Installation check actual boxes of all tiles/planks to be sure that correct color, pattern, and quality has been shipped for your specific installation. Do not mix dye lots in the same area.

- Observe wearing surface and back of all tiles or planks to be sure there is no damage or defects. Do not install or glue tile with visible defects. Tiles or planks that may have minor defects on one side or at edges can be used for trimming and fitting at walls and columns.
- Lay tiles or planks starting at the center of the room working towards the walls. Lay out following the directional arrows on back of tiles.
- The perimeter tile or planks must be cut up to the wall from the field tile or plank. The perimeter tile or planks should be accurately scribed against the wall and any projections coming out from the walls. Cut product from the face side with a sharp knife. Do not jam tiles. Keep foot traffic off laid area while installing to prevent shifting.
- Install material with TAJ Modular spray adhesive system following the instructions on the container label or TAJ trowel applied adhesives using the appropriate trowel notch design called out on the adhesive container label.
- Please note complete instructions on adhesive containers.
- All corners of tile shall be butted, not staggered. Planks are to be staggered for uniform and natural look. Square tiles will have an arrow on the back of the tile or a line. The square tiles should be installed with the arrow or lines at 90 degree angles to each other in order to accomplish uniformity of color and pattern. Layout tile or planks loosely a minimum of 15 to 20 tiles or planks, to verify uniformity of color and pattern.
- If the tile or planks cannot be installed with a uniform appearance, stop the installation. Contact TAJ for assistance.
- Fit tile or planks carefully and neatly to all pipes, columns and other obstructions without voids, especially where there will be no base installed.
- Within one hour after installation, roll the tile or planks thoroughly in both directions with a 100-pound roller, to properly seat the tile or planks into adhesive. Check tiles two to three hours later and roll again.
- Fit tile or planks properly at walls. Do not over-fit tile or planks as that will cause them to buckle.
- During installation, remove any spilled adhesive or adhesive that may be squeezed through joints with a clean white rag dampened with soapy water. If adhesive has set prior to removal with a damp rag, it can be removed with mineral spirits solvent.
- Foot traffic is allowed after installation is completed, but heavy traffic should be not allowed for 24 hours if using TAH 585 Adhesive.
- Floor surface should not be cleaned until 72 hours after installation is completed when using the TAJ 585 adhesive – or 4 hours if using Eco Bond adhesive system.

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TAJ Modular Acoustic Flooring with Non Slip backing is designed in such a way that allows for a modified loose lay installation option. Fit and install as described above with the exception of adhesive. The Modular Acoustic Flooring around the perimeter of the space must be secured using the TAJ685 or Eco Bond adhesive. The flooring material found in the field within the perimeter can be placed without adhesive. Take special care with foot traffic when laying product to avoid shifting until the perimeter is secure. It is recommended that the tiles be installed with adhesive as directed in doorways. Areas larger than 400sf and areas that are subject to rolling loads should have bands of adhesive spread every 15'. Intersections of hallways should be secured with full spread adhesive across the entire substrate of the intersection. The modified loose lay installation option is not warranted to remain movement free. All applications are different and thus the amount of adhesive required to keep the Modular Acoustic Flooring movement free will also be different in each application.

Protection:

- The floor is designed to properly support a static load of 1000 psi. Furniture, equipment, and rolling loads should not exceed these limits. If they do, legs of such equipment and furniture should be properly supported to prevent damage to tile or planks. Protect floor surface with wood or sheets of plywood whenever heavy equipment or furniture must be moved.
- Metal swivel smooth bottom glides are recommended under chairs with sharp or unprotected edges to prevent scratching.



MATERIAL SAFETY DATA SHEET

MODULAR ACOUSTIC FLOORING

T
MSDS DATE:11/1/15

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Modular Luxury Vinyl Tile – Heterogeneous Floor Tile

COMPANY INFORMATION: TAJ Flooring, Inc.
ADDRESS: 740 Church Road
Elgin, IL 60123

EMERGENCY PHONE: 847-690-9930
CHEMTREC PHONE: 847-690-9930 x160
OTHER CALLS: 888-652-2111
FAX PHONE: 847-690-9331

CHEMICAL NAME: LVT – Heterogeneous Floor Tile

PRODUCT USE: Floor Covering
PREPARED BY: TAJ Flooring Inc. Technical Services

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

None per OSHA Standard 29 CFR 1910.1200 and SARA Title III, Section 313

SECTION 3: HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW:

Form: Solid, flooring tiles
Color: Varies
Odor: No appreciable odor

WARNING STATEMENTS:

None

POTENTIAL HEALTH EFFECTS

Primary Routes of Exposure: N/A

EYES: N/A
SKIN: N/A
INGESTION: N/A
INHALATION: N/A

ACUTE HEALTH HAZARDS: None known

CHRONIC HEALTH HAZARDS: None known

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: N/A

OTHER: This product is an article or building product and is relatively non-toxic, presenting no known hazard to people, except as noted under thermal decomposition by-products

SECTION 3 NOTES: Refer to section 11 for toxicology information.

SECTION 4: FIRST AID MEASURES

EYES: Flush with cool water, like any non-hazardous solid

SKIN: If skin is irritated from handling product (transitory mechanical dermatitis), wash thoroughly with soap and water. Seek medical attention if condition persists.

INGESTION: Seek medical attention if a considerable amount has been swallowed

INHALATION: None expected from product. Remove to fresh air and seek medical assistance if adverse reaction to adhesive should occur.

NOTES TO PHYSICIANS OR FIRST AID PROVIDERS: None

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SECTION 5: FIRE-FIGHTING MEASURES

FLAMMABLE LIMITS IN AIR, UPPER: N/A
(% BY VOLUME) LOWER: N/A

FLASH POINT: N/A

AUTOIGNITION TEMPERATURE: N/A

NFPA HAZARD CLASSIFICATION: N/A

EXTINGUISHING MEDIA: On its own, product is difficult to ignite. Use water spray or other appropriate media for surrounding fire

SPECIAL FIRE FIGHTING PROCEDURES: Protect fire fighters from toxic products of combustion by wearing self-contained breathing apparatus and full protective clothing.

UNUSUAL FIRE AND EXPLOSION HAZARDS: None

HAZARDOUS DECOMPOSITION PRODUCTS: Protect self from melted product and combustion products.

SECTION 5 NOTES: ASTM E-648 CRF value greater than 0.45 w/square cm; material is considered to be self-extinguishing.

SECTION 6: ACCIDENTAL RELEASE MEASURES

ACCIDENTAL RELEASE MEASURES: None, This is a non-hazardous product.

SECTION 7: HANDLING AND STORAGE

HANDLING AND STORAGE: Consult TAJ installation instructions for information on handling and storage of this non-hazardous product.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS: Install in well ventilated area

RESPIRATORY PROTECTION: Normally not required

EYE PROTECTION: Normally not required

SKIN PROTECTION: Normally not required

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: Normally not required

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Solid, flooring tiles

ODOR: No appreciable odor

PHYSICAL STATE: Solid, flooring tiles

pH: N/A

BOILING POINT: N/A

MELTING POINT: N/A

FREEZING POINT: N/A

VAPOR PRESSURE (mmHg): N/A

VAPOR DENSITY (AIR = 1): N/A

SPECIFIC GRAVITY (H₂O = 1): Above 1.60

EVAPORATION RATE: N/A

SOLUBILITY IN WATER: N/A

SECTION 10: STABILITY AND REACTIVITY

AVOID (STABILITY): Stable

INCOMPATIBILITY (MATERIAL TO AVOID): Stable

HAZARDOUS DECOMPOSITION OR BY-PRODUCTS: Thermal decomposition in the presence of air may yield hydrogen chloride gas, carbon dioxide and carbon monoxide.

HAZARDOUS POLYMERIZATION: Will not occur

CONDITIONS TO



MATERIAL SAFETY DATA SHEET

MODULAR ACOUSTIC FLOORING

T
MSDS DATE:11/1/15

SECTION 11: TOXICOLOGICAL INFORMATION

TOXICOLOGICAL INFORMATION: Non-toxic

SECTION 12: ECOLOGICAL INFORMATION

ECOLOGICAL INFORMATION: No ecological impact study information is available on this product.

SECTION 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: Disposal should be done in accordance with all local, state and federal (40 CFR Part 261) regulations. Be aware that state and local requirements differ widely depending on location and may in many cases be different from federal regulation.

RCRA HAZARD CLASS: N/A

SECTION 14: TRANSPORT INFORMATION

U.S. DEPARTMENT OF TRANSPORTATION
PROPER SHIPPING NAME: Not regulated
HAZARD CLASS: Not regulated
ID NUMBER: N/A

SECTION 14 NOTES: The information in this section is for example only. Please apply the appropriate regulations to properly classify your shipment for transport.

SECTION 15: REGULATORY INFORMATION

U.S. FEDERAL REGULATIONS
TSCA (TOXIC SUBSTANCE CONTROL ACT): N/A
CERCLA (COMPREHENSIVE RESPONSE COMPENSATION, AND LIABILITY ACT): N/A
SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT): N/A
311/312 HAZARD CATEGORIES: N/A

SECTION 16: OTHER INFORMATION

OTHER INFORMATION: This material is a finished floor covering product. TAJ Flooring provides a Product Safety Data Sheet on all finished floor covering products.

Product Safety Data Sheets (PSDS) are provided for finished floor covering products based on the "article exemption" found in 29 CFR 1910.1200 (b) (6) (v). An article is defined as: "a manufactured item other than a fluid or particle: (i) which is formed to a specific shape or design during manufacture; (ii) which has an end use function(s) dependent in whole or in part upon its shape or design during end use; and (iii) which under normal conditions of use, does not release more than very small quantities, e.g. minute or trace amounts of a hazardous chemical and does not pose a physical hazard or health risk to employees."

Material Safety Data Sheets for all sundry products (adhesives, maintenance products, etc.) can be obtained by contacting TAJ Flooring customer service at 888-652-2111.

Because most floor installations require adhesives, it is recommended that the user review the manufacture's recommendations for adhesive spread rate, open time, proper ventilation, safe installation practices, etc. prior to and during installation.

DISCLAIMER: Although the information and recommendations set forth herein (hereinafter "Information") are presented in good faith and believed to be correct as of the date of hereof, the company makes no representations as to the completeness or accuracy thereof. Information is supplied upon the condition that the persons receiving same will make their own determination as to its suitability for their purposes prior to use. In no event will the company be responsible for damages of any nature whatsoever resulting from the use of or reliance upon this information. NO REPRESENTATIONS OR WARRANTIES, EITHER EXPRESS OR IMPLIED, OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR OF ANY OTHER NATURE ARE MADE HEREUNDER WITH RESPECT TO INFORMATION OR THE PRODUCT TO WHICH THE INFORMATION REFERS.