



## Installation Instructions: TAJ Sheet Vinyl Flooring

Recommended Adhesive: TAJ Eco Bond Adhesive / TAJ 585 Adhesive / Mapei 2 Part Urethane or Epoxy Hard Set Adhesive G-15, G-19, or G21

### Job Site 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 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:** Upon receipt of the material, remove from crates or skids to fully inspect the material so all rolls can be viewed and inspected for any shipping damage. Contact TAJ Flooring, Inc. immediately with any material issues. Store rolls vertically on a clean level surface if not installed immediately. Flooring materials and adhesives should be on site with the areas of intended installation a minimum of 24 hours prior to installation allowing materials to acclimate.

### Suitable Substrates:

**Concrete Substrate:** Concrete substrate shall conform to requirements of ASTM F-710-05 (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 Eco Bond 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.
- **Mapei 2 Part Epoxy or Urethane Hard Set Adhesive:** Follow adhesive manufacturers guidelines for use with sheet vinyl.

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. It is possible that joints of existing resilient flooring may telegraph though. This is common and not a product defect. Ink, markers, and paint on substrate must be removed by sanding to prevent bleed through and staining of the sheet flooring. Sealing and/or skim coating is not a substitute for sanding.

Continue to page 2

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### Unsuitable substrates:

Particleboard, chipboard, flake board, hard board, soft or lightweight aggregate concrete, gypsum, or other resilient floorcoverings are not the most suitable substrates for installation of vinyl flooring and must use only TAJ Eco Bond 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.

### Hospital Beds:

In the event that TAJ Flooring sheet vinyl is to be used in patient rooms, special care must be taken in the area under the beds and heavy equipment. Hard setting 2 part adhesive systems such as Mapei G-15 (Epoxy), G-19 (Urethane) or G-21 (Urethane) give the best chance of limiting residual indentation and should be used in these instances. Follow adhesive manufacturer's instructions for use.

### Flash Coving:

Whenever flash coving is required, the floor area should be installed first and the installation of flash coving last. Also any required cap strips or termination strips should be installed prior to fitting the flash cove. Under scribe and fit flash coving dry so that it fits correctly into the cap strip. Do not over-fit or pressure-fit, as it will cause bubbles. Use only TAJ Eco Bond Sheet adhesive and adhere to the wall surface and the back of the sheet vinyl. Press the flash cove into position and roll it thoroughly using a steel hand roller. In corners and out corners should be fit by butterflying and wrapping the corner so as to eliminate any corner joint. For out-corners it helps to groove the back at the corner position to allow the corner to be wrapped tightly and prevent bubbles at the corner. Heat weld vertical seams using matching welding thread.

### Installation:

Roll our sheet material with pattern surface up. Install all sheets in the same direction. Allow material to acclimate to building conditions for a minimum of 24 hours prior to fitting, bonding, and seaming.

- Inspect all sheet material carefully to verify that proper colors are installed in specific areas. Also, do not mix dyelots in the same area. Do not install any material with visible defects. Side seams shall be lapped a minimum of 1" and end seams a minimum of 2". Double cut through side and end seams using metal straight edge prior to adhesive bonding. Fold back sheet of approximately half way. Apply adhesive. Please note adhesive instructions on the adhesive container.
- Roll flooring into adhesive with a 100 lb. roller immediately upon installation of flooring. Once rolled, the floor is ready for immediate use.
- After sheet vinyl has been installed for a minimum of 1 hour, you can then proceed with the welding of all side and end seams. Sheet Vinyl should be heat welded with corresponding heat weld.
- When heat welding, it is recommended it be done by experienced personnel with a minimum of 5+ years' experience or Master Mechanic certification. Leister or Zinser heat welding equipment is recommended.
- When trimming weld rod following placement of the weld on sheet products with heavy wood grain emboss, TAJ Flooring, Inc. recommends using a WDD18M Mozart Trimming Knife. The Mozart knife will allow for accurate trimming without damage to the emboss of the sheet flooring.
- For the first 12 hours, normal foot traffic is allowed. Movement of heavy equipment or furniture should not be done until after 24 hours after installation with using TAJ 585 adhesive. If you must move heavy furniture or equipment in an emergency prior to 24 hours, it is important to protect the surface of the sheet vinyl with heavy wood planks or 1/2" thick plywood to protect the surface from damage. TAJ Eco Bond adhesive requires only a 4 hour waiting period.

Continue to page 3



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### Protection:

1. The floor is designed to properly support a static load of 1100 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
2. Chair pads are recommended under chairs with roller casters.
3. Felt pads are recommended under chairs with sharp or unprotected edges to prevent scratching.



# MATERIAL SAFETY DATA SHEET

Resilient Sheet Vinyl Flooring

MSDS DATE: 2/1/16

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## SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

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**PRODUCT NAME:** Resilient Sheet Vinyl Flooring

**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:** Resilient Sheet Vinyl Flooring

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

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## SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

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

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## SECTION 3: HAZARDS IDENTIFICATION

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**EMERGENCY OVERVIEW:**  
Form: Sheet vinyl floor covering  
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.

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## SECTION 4: FIRST AID MEASURES

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**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

# MATERIAL SAFETY DATA SHEET

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## SECTION 5: FIRE-FIGHTING MEASURES

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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.

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## SECTION 6: ACCIDENTAL RELEASE MEASURES

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

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## SECTION 7: HANDLING AND STORAGE

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

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## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

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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

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## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

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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 (H<sub>2</sub>O = 1): 1.30 – 1.60

EVAPORATION RATE: N/A

SOLUBILITY IN WATER: N/A

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## SECTION 10: STABILITY AND REACTIVITY

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CONDITIONS TO 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

# MATERIAL SAFETY DATA SHEET

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## SECTION 11: TOXICOLOGICAL INFORMATION

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TOXICOLOGICAL INFORMATION: Non-toxic

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## SECTION 12: ECOLOGICAL INFORMATION

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

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## SECTION 13: DISPOSAL CONSIDERATIONS

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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

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## SECTION 14: TRANSPORT INFORMATION

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### 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.

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## SECTION 15: REGULATORY INFORMATION

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### 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

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## SECTION 16: OTHER INFORMATION

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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.