

Installation Instructions: TAJ Sheet Vinyl Flooring

Recommended Adhesive: TAJ Eco Bond Adhesive / TAJ-1095 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-1095 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.

Concrete Substrate Requirements: 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 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-1095 Adhesive:** Maximum 10.0 lbs. of moisture per 1,000 sf / 24 hours per ASTM F1869 Calcium Chloride Tests or a max RH of 95% per ASTM F2170 In Situ Relative Humidity Test. pH of 5-12 is acceptable.
- **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.

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Approved substrates: Suitable substrates include properly prepared concrete, portland based underlayments, properly prepared lightweight concrete (primed with universal primer), minimum 3/8" APA graded smooth sanded plywood, terrazzo (properly prepared with all waxes and surface finishes removed), concrete radiant heated subfloors that do not exceed 85 F.

Particleboard, chipboard, flake board, hard board and gypsum based underlayments ARE NOT suitable substrates for installation of vinyl flooring. Contact TAJ Flooring for recommendations regarding all other types of substrates.

Hospital Beds: If 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-1095 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.

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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.