

INSTALLATION INSTRUCTIONS MOTIVVA SPORTS + MULTIPURPOSE FLOORING



RECOMMENDED ADHESIVES:

- TAJ-1095 Pressure Sensitive Adhesive
- TAJ-U100 High Moisture Capable Wet Set Adhesive
- Mapei 2-Part Urethane or Epoxy Hard Set Adhesive G-15, G-19, 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 lit, fully enclosed, weather tight, and climate controlled by a 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. 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.

Storage and Handling:

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. Avoid laying rolls on their sides for long periods of time. When more than one roll is to be installed, make sure to organize the rolls in such a way that they will be installed in sequential order with all sheets running the same direction. If material from more than one production lot is being used, make certain the project is laid out so that no rolls from different production lots are installed adjacent to one another. Flooring materials and adhesives should be on site within the areas of intended installation for a minimum of 48 hours prior to installation allowing materials to acclimate.

Concrete Substrate Requirements:

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 premium quality cement-based patching materials. Level high spots by grinding or sanding. [continue to page 2]

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Any required leveling shall be done with cement-based underlayment, minimum 3,500 psi, i.e., Ardex or Mapei. Patching and underlay material shall be applied in strict accordance with the manufacturer's specifications and installation instructions.

- **TAJ-1095 Pressure Sensitive 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.
- **TAJ-U100 High Moisture Capable Wet Set Adhesive:** Unlimited MVER and 100% RH requires no moisture testing in advance of installation.
- **Mapei 2-Part Epoxy or Urethane Hard Set Adhesive:** Follow adhesive's manufacturer 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 through. 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.

Approved Substrates:

Suitable substrates include properly prepared concrete, concrete-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.

Installation:

Sports flooring should be installed only by experienced professional flooring contractors that are experienced with the installation of heat welded sheet vinyl. Roll out sheet material with pattern surface up making certain materials are running the same direction. This process will allow material to relax and acclimate to building conditions as well as provide tile for final material inspection. Material should be allowed to relax for a minimum of 48 hours prior to fitting, bonding, and seaming.

- Inspect all sheet material carefully to verify that proper colors are installed in specific areas. Do not mix material from separate production lots in the same area. Do not install any material with visible defects. Any material installed with visible defect will not be considered a legitimate claim as it pertains to labor costs. Side seams shall be lapped a minimum of 1" and end seams a minimum of 2".
- Fit all seams with a good quality under scribe. Under scribe should be set to allow for a gap at the seams to accommodate the guide of the groover to be used for the heat welding process. The size of the gap should be determined by the grooving equipment that will be used during the heat welding process on the project. Fold back sheet to expose the substrate. Apply adhesive following instructions on the adhesive container. When appropriate, slowly move the sheet material into the adhesive maintaining the slight gap at the seams. Avoid flopping material or placing into adhesive in such a way that air pockets could be trapped beneath as trapped air could be challenging to remove and could result in bubbles. [continue to page 3]

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- Factory edges can be used when seaming solid color materials. Make certain factory edge is not damaged and the necessary gap from grooving can be maintained over the entire length of the seam.
- Extra care may be required at end seams to work the material into a flat position. Weighting these areas will ensure the material stays flat and in contact with the adhesive and substrate during the adhesive initial cure time.
- Roll flooring into adhesive with a 100 lb. roller immediately upon placement. Re-roll the entire installation upon completion beginning where material was first placed and working toward areas of final placement.
- Light foot traffic is allowed on the flooring material for the first 12 hours after placement into the adhesive. Unlimited foot traffic after 24hrs.
- After sheet vinyl has been installed for a minimum of 24 hours, you can then proceed with the welding of all side and end seems. Sheet Vinyl should be heat welded with corresponding 4mm heat weld.
- Groove the seams using a 3.5mm grooving tool only to the depth of the solid PVC layers. Do Not groove into the foam cushion backing. The grooving tool will follow the slight gaps left between the sheets earlier in the process.
- 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. Make sure to practice both grooving and welding on scrap materials to ensure pre-heated equipment and application techniques work well in the given situation. After weld is placed with the weld equipment, it should not pull out of the groove. If it does, the fusing is incomplete. Adjust weld tool speed to the point that the fusing is complete, and rod cannot be pulled out of the groove. A small ridge will form on either side of a correctly placed weld rod indicating it has fused with sheet material. Once the appropriate speed is determined through practice, use that speed during the welding procedure. Be aware that long extension cords can impact the welding equipment's ability to maintain consistent temperature. Monitor results on an ongoing basis for consistency.
- When trimming weld rod following placement of the weld on sheet products. Make an initial pass with a Mozart trimming knife with the thickness guide in place. After completing the first pass and ensuring that the weld has completely cooled, a final pass with the trimming tool must be made without the thickness gauge using only the trimmer blade. 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.
- Movement of heavy equipment or furniture should not be done until after 48 hours after installation with using TAJ-1095 adhesive. If you must move heavy furniture or equipment in an emergency prior to 48 hours, it is important to protect the surface of the sheet vinyl with heavy wood planks or ½" thick plywood to protect the surface from damage. [continue to page 4]

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Protection:

Careful attention should be taken to protect and prevent any unnecessary matters as it relates to the sports flooring including:

- The floor is designed to properly support a static load of 175psi. 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.
- Chair pads are recommended under chairs with roller casters.
- Felt pads are recommended under chairs with sharp or unprotected edges to prevent scratching.

For more information on sports flooring installations, contact your TAJ Sales Representative or TAJ customer service: (888)-652-2111 | info@tajflooring.com