

INSTALLATION INSTRUCTIONS MOTIVVA SPORTS + MULTIPURPOSE FLOORING



RECOMMENDED ADHESIVES:

TAJ-1095 Premium Vinyl Flooring Adhesive

Job Site Conditions:

The flooring installation should be scheduled after the work of all other trades is 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 48 hours 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 occur until the adhesive is cured for at least 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 immediately with any material issues. Store rolls vertically on a clean level surface. Avoid laying rolls on their sides for lengthy 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 at least 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]

INSTALLATION INSTRUCTIONS MOTIVVA SPORTS + MULTIPURPOSE FLOORING



Any required leveling shall be done with cement-based underlayment, minimum 3,500 psi, i.e., Ardex, Mapei, or similar. 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.

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 the 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 bleeding 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 professional flooring contractors experienced with heat welded sheet vinyl installation. Roll out sheet material with pattern surface up making certain materials are running the same direction. This process will allow material to relax and acclimatize to building conditions and provide for final material inspection. Material should be allowed to relax for at least 48 hours before fitting, bonding, and seaming. Roll materials need to relax to a completely flat state prior to installation. Ambient temperatures and the length of material storage time may increase the time required for the material to relax to a flat state. Back rolling of the material may be required to break the roll memory of the material and allow for flatness to be achieved. The material must lay flat before proceeding.

- ❑ 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. Factory edges can be used when seaming materials if pattern requirements are met. Make certain factory edge is not damaged and the necessary gap from grooving can be maintained over the entire length of the seam.
- ❑ If seams need to be trimmed to create a clean edge to provide proper pattern matching, fit seams with a superior quality under scribe. Side seams shall be lapped a minimum of 1" and end seams a minimum of 2". (continue to page 3)

INSTALLATION INSTRUCTIONS MOTIVVA SPORTS + MULTIPURPOSE FLOORING



- Under scriber 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 gap's size should be determined by the grooving equipment used during the project's heat welding process. 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 it 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. Several clean, soft push brooms side by side moving the length of material with consistent heavy pressure applied can be helpful in forcing out air pockets that may form.
- 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 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 24 hours.
- After sheet vinyl has been installed for a minimum of 24 hours, you can then proceed with the welding of all side and end seams. 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. Automatic welding machines should be employed to help with consistency of welding quality. 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 welding is placed with the weld equipment, it should not pull out of the groove. If it does, the fusing is incomplete. Adjust the 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 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. (continue to page 4)
- Movement of heavy equipment or furniture should not be done until 48 hours after installation 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]

INSTALLATION INSTRUCTIONS MOTIVVA SPORTS + MULTIPURPOSE FLOORING



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 the 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, contact your TAJ Sales Representative
or TAJ customer service: (888) 652-2111 | info@tajflooring.com



Scan or [click here](#) to access technical information including specifications, full warranty, maintenance guides, certifications and more.

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