



Permanent
No Wax Finish

INSTALLATION INSTRUCTIONS

Luxury Vinyl Sheet (LVS) FLOORING

Metallic

Cushion and Non-Cushion

Installed Over Structural Concrete (Manufacturer's Approved Adhesives are Chapco 231 and 987-M or Mapei G-19 and Mapei G-21)

JOB CONDITIONS

The installation of flooring shall proceed only after the work of other trades has been completed, especially overhead trades. Areas to receive sports flooring shall be clean, adequately lighted, fully enclosed, weather tight, and heated to a minimum of 65° to 70° F. for 72 hours before, during, and after installation is completed. Heat should be maintained in areas to receive flooring with the building's permanent heating system. Salamanders and other temporary heating devices should not be used. Installed flooring shall not be exposed to heavy traffic or heavy rolling loads or any type of maintenance procedures 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.

SUITABLE SUBFLOORS

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 $\pm 1/4"$ 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. Concrete and underlayment must be dry; maximum 5.0 lbs. of moisture per 1,000 sq. ft. per 24 hours as tested by Calcium Chloride Test Kits per R.M.A. test procedure. Test pH of concrete. pH shall be <10 . 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.

Damp proofing – (Shall conform to A.C.I Addendum 302.2R-06 – Vapor Retarder Location)

Concrete subfloors that occur in contact with the earth (on or below grade), must be properly damp proofed, directly from beneath. Damp proofing membrane must be in direct contact with the bottom surface of the concrete slab. Suitable membranes for on-grade concrete shall be equal to A.I.A. Master Spec – minimum one layer of black polyethylene – 10 mil thickness or two layers of black polyethylene; each minimum 6 mil thickness. Membranes shall be lapped and sealed and turned up at perimeter of slab edges and installed in accordance with membrane manufacturer's installation instructions. Do not place any type of fill, sand, or gravel over damp proofing membranes. Concrete slabs below grade shall be damp proofed with heavy-duty 1/8" thick pre-molded membranes equal to W.R. Meadows damp proofing membranes. The project engineers shall also provide suitable and adequate drainage of building foundation wall and footings.

UNSUITABLE SUBSTRATES

Particleboard, chipboard, flakeboard, hard board, lightweight aggregate concrete or gypsum underlayment are not suitable substrates for installation of vinyl flooring. Contact us for recommendations regarding all other types of substrates.

Hospital Beds

In the event that Tajima Luxury Vinyl Sheet (LVS) is to be used in patient rooms the area under the beds must be installed using one of the recommended 2-part polyurethane or epoxy adhesives. This will minimize any future complaints regarding indentation.

INSTALLATION (Proceed with installation only after moisture has reached a maximum of 5.0 lbs. There is no pattern match for Metallic).

1. Roll out sheet material with pattern surface up. If you are installing Metallic you are to install all sheets in the same directions. Allow material to acclimate to building conditions for a minimum of 24 hours prior to fitting, bonding, and seaming.
2. Inspect all sheet material carefully to verify that proper colors are installed in specific areas. Also do not mix dyelots in 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 to concrete surface with a notched trowel - notches 1/16" x 1/16" spaced 1/16" apart. We recommend throwaway blades. Use one blade for each container of adhesive, approximately 600 to 700 sq. ft. Hold trowel at approximately a 45° angle to accomplish proper adhesive spread. Do not overlap or double layer adhesive. Please note adhesive instructions on the adhesive container. Material must be placed into adhesive while the adhesive is still wet. The correct adhesive for application over clean, dry concrete is Chapco #231 or #987-M. Roll all sheet vinyl with heavy linoleum roller in both directions within 30 minutes after adhesive bonding. If necessary, roll again two to three hours later. Hand roll all seams with steel hand roller.
3. After sheet vinyl has been installed for a minimum of 12 hours, you can then proceed with the welding of all side and end seams. Metallic can be heat welded with Tajima welding threads or may also be welded with chemical liquid seam weld using seam welding tool provided. If heat welding is used, it is recommended that it be done by experienced personnel using Leister and/or Zinser heat welding equipment. Be certain to practice heat welding on scrap material first prior to welding installed material. If you intend to chemically weld the Metallic, the seams should be covered with a 2" wide piece of 3M professional masking tape – the full length of the seams. Cut through the masking tape directly over the seam. Squeeze the liquid weld through the tape and into the seam until you see a small excess of liquid appear on the surface of the tape. Weld at a continuous rate to completely fill the joints with seam liquid. Be careful not to smear liquid weld on the floor surface. Allow the seam welding liquid to dry for 30 minutes and then remove all tape. Dispose of the tape into waste containers. Please note - they are flammable - exercise care. All masking tape should be removed within two to three hours. Keep all foot traffic off floor until seam weld has thoroughly dried, minimum three to four hours.
4. For the first 72 hours normal foot traffic is allowed. Movement of heavy equipment or furniture should not be done until after 72 hours. If you must move heavy furniture or equipment in an emergency prior to 72 hours it is important to protect the surface of the sheet vinyl with heavy wood planks or 3/8" thick plywood to protect the surface from damage.

FLASHCOVERING: Whenever flashcovering is required the floor area should be installed first and the installation of flashcovering last. Also any required cap strips or termination strips should be installed prior to fitting the flashcove. Underscribe and fit flashcovering dry so that it fits correctly into the cap strip. Do not over-fit or pressure-fit, as it will cause bubbles. Apply Chapco 314 adhesive to the wall surface and the back of the sheet vinyl. You must hold the sheet vinyl away from the wall for sufficient time until the adhesive has setup tacky and does not transfer to you fingers when lightly touched. After the adhesive is setup tacky, you can press the flashcove into position and roll it thoroughly using a steel handroller. 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 for Metallic or liquid seam weld..

NOTE: These instructions apply to installation of over new concrete. Contact supplier for installation instructions involving all other types of sub-surfaces.

Do not install sheet vinyl over soft (lightweight) concrete or soft underlayment materials. Also materials such as Masonite, particleboard, chipboard are not suitable substrates. Minimum 3/8" thick APA graded plywood, properly installed, is a suitable underlayment. Contact us for specific specifications. In the event you are considering installing material over existing vinyl, sheet, or tile floor covering, contact us for recommendations.

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