

SILPRO

PSA PRESSURE SENSITIVE ADHESIVE™

High Performance
Long Working Time
Anti-Microbial

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SILPRO PSA™ is a high performance pressure sensitive adhesive. Contractors choice for installation of vinyl tile (LVT,) vinyl plank, modular carpet tile, as well as, fiberglass reinforced (F/G) sheet vinyl. PSA™ can be used on most commonly found sub-floors. Allows for the removal and replacement of carpet tiles while maintaining a high standard of performance. PSA™ may also be used to install approved carpet cushions in double-glue installations. PSA™ has a long working time, spreads easily and easy clean up.

PSA™ is a nonhazardous, VOC compliant adhesive with zero VOC's (calculated). PSA™ is designed with a specifically formulated broad-spectrum, anti-microbial agent that protects against microorganisms, such as mold or mildew, in both the wet and dry states. PSA™ contributes to several LEED NC and EC credits in the following categories:

- IEQ Credit 4.1—Low Emitting Materials – Adhesives & Sealants
- IEQ Credit 4.3—Low Emitting Materials – Flooring Systems

TECHNICAL DATA

Non-flammable; solvent free, 0 g/l VOC
(calculated by CA Rule 1168)

Color: White

SURFACE PREPARATION

Recommended Sub-floors:

- Concrete above, on or below grade
- APA rated plywood underlayment
- Properly prepared gypsum cement

The building should be completely enclosed.

Landscaping should be sufficiently completed to direct water away from the building.

All concrete, masonry, plastering, drywall and other wet work should be completed and thoroughly dry prior to beginning the installation. Texturing and paint primer coats should be completed.

Basements and crawl spaces should be dry and adequately ventilated. Sub-floors must be checked for moisture content and emissions using industry accepted methods. Crawl spaces should meet local building codes regarding minimum heights, cross ventilation and the use of vapor retarders.

Sub-floors must be free from dust, dirt, grease, wax, curing agents, sealers, oil and any other bond inhibiting substances. The sub-floor should be flat within 3/16" in 10' or 1/8" in 6'. Sub-floors must have a pH of 7.0-10.0.

Prior to the application of PSA™, sub-floors must be tested in strict accordance to the most recent versions of ASTM F-1869 and F-2170. Both testing protocols must be performed in order to provide the most accurate view of the sub-floor's condition. Sub-floors of lightweight concrete must be tested in strict accordance to the most recent version of ASTM F-2170. The placement of calcium chloride kits and humidity probes must follow the ASTM standards for proper locations and the correct quantity of test sites.

SURFACE PREPARATION CONTINUED

Sub-floors on and below grade must be protected from ground moisture with a functioning and intact Class A vapor retarder that conforms to the requirements of the most current version of ASTM E-1745. This vapor retarder must be directly beneath, and in contact with, the slab. Concrete must be dry with moisture emission rates not exceeding 8 lbs./1000 sq ft/24 hrs, as measured by the Anhydrous Calcium Chloride Test, ASTM F-1869. Lightweight concrete and gypsum cement can only be tested according to the requirements of ASTM F-2170.

For gypsum cement, densified and lightweight concrete, the in situ relative humidity should not exceed 90%. Before any moisture testing begins, the slab must be cured for a minimum of 30 days and the HVAC system must be operating for a minimum of 72 hours.

Utilize SILPRO VAPOR HALT™ 125 epoxy moisture mitigation system where necessary. Fill low areas with SILPRO leveling or patching compound. Leveling and patching compounds must be tested to ensure they are properly cured and within the manufacturer's specified requirements before proceeding with the installation. Mechanical surface profiling is the preferred sub-floor preparation method. Mechanically profile the sub-floor to a rough-grit sandpaper texture.

All curing agents (topical and admix,) adhesives, paints, varnishes, oils, waxes, dust, dirt and any other bond inhibiting substances must be removed. The removal of bond inhibiting substances must be by mechanical means: sanding, shot or bead blasting. PSA™ cannot be used if adhesive removers, solvent or chemical cleaners have been used.

Lightweight concrete and gypsum cement must be primed with SILPRO C-21 ACRYLIC PRIMER® before applying the adhesive. Sanded and other very porous substrates must also be primed with SILPRO C-21 ACRYLIC PRIMER®. Do NOT use PSA™ over AdvanTech® sub-floor panels.

Strip or plank wood flooring, particleboard and OSB sub-floors should be covered with an approved underlayment (minimum thickness of ¼"). For assistance with specific sub-floors and floorings please contact our Technical Services Department. Regulations may require that existing flooring material or coatings be tested to determine the asbestos content. Refer to the instructions for removal and handling of resilient flooring published by the RFCI in the publication, Recommended Work Practices for Removal of Resilient Floor Coverings. The Resilient Floor Covering Institute may be reached thru their Website www.rfci.org or by calling 301-340-8580.

Slabs with a radiant heating system are acceptable sub-floors with the following stipulations. The heating system should be fully operational for a minimum of seven days prior to the installation. The system should be shut down to allow the slab to cool down to room temperature before applying the adhesive. Immediately after completing the installation turn the system back on and set to normal temperature. The sub-floor cannot exceed 85°F throughout the life of the installation. Check with the system manufacturer to determine that the system is designed for the desired R-rating for wood flooring.

For Customer Service, Call Silpro at 1-800-343-1501

SURFACE PREPARATION CONTINUED

Failure to ensure proper system design can result in excessive heat damage and dimensional change to the flooring.

NOTE: The HVAC system for the building should be operational and provide a consistent temperature of 65-85°F (air and sub-floor) and humidity levels should be between 30-65% for a minimum of 72 hours prior to the installation. These conditions must be maintained to ensure the long-term success and performance of the installation.

APPLICATION

F/G SHEET VINYL INSTALLATION:

1. The adhesive should be acclimated to the end use conditions for a minimum of 24 hours prior to the start of the installation.
2. After the sheet vinyl has acclimated and relaxed according to the manufacturer's instructions. Trim the flooring to fit the room. Now roll or lap back approximately half of the flooring to expose the sub-floor.
3. Apply the adhesive according to the flooring manufacturer's recommendations. It is the responsibility of the installer to correctly apply the adhesive and in the proper quantity. Pay particular attention to the adhesive application that will fall at the seams. Avoid puddles, thin spots, and voids when applying the adhesive.
4. Allow the adhesive to dry to the touch, not transferring to fingers. High humidity and low temperatures will affect drying time. When applying adhesive over nonporous substrates allow additional time for the adhesive to dry to a pressure sensitive state. Placing the sheet vinyl into wet adhesive will result in an aggressive, permanent bond.
5. Carefully, place the sheet vinyl into the adhesive to avoid trapping air under the flooring. Do not drop or flop the sheet vinyl into place. Using either the "broom method" or a three-section roller (max. 75lb.), according to the flooring manufacturer's recommendations, remove any trapped air.
6. When the first half is properly adhered, repeat the process for the remaining flooring. Be careful handling the material at the glue line. Do not distort any patterns or tear the backing.
7. Keep traffic to a minimum and avoid placing heavy furniture or appliances for a minimum of 48 hours.

CARPET TILE, VINYL PLANK and LVT INSTALLATION:

1. The adhesive should be acclimated to the end use conditions for a minimum of 24 hours prior to the start of the installation.
2. Spread the adhesive with the appropriate trowel or roller and allow the adhesive to dry to a clear, tacky state. Fans can be used to speed the drying of the adhesive. Place the flooring into the dry, pressure sensitive adhesive. When installing vinyl plank or LVT only spread as much adhesive as can be covered with the flooring in under six hours. When installing carpet tile PSA™ has a working time of up to 24 hours. While applying the adhesive with a roller caution must be exercised to maintain an adequate adhesive coverage. For most applications the spread rate should not exceed 350 sq. ft. /gal.
3. Roll the installed flooring with a 75-100lb, three-section roller. Rolling should take place immediately after the flooring is placed into the adhesive.
4. It is recommended to minimize traffic over the newly installed flooring for at least 24 hours after the installation has been completed. The placement of heavy furniture and fixtures can begin after 48 hours. To replace furniture and appliances use plywood panels to protect the flooring. Do not wash or clean the floor for five days after completion of the installation.

APPLICATION CONTINUED

NOTE: We recommend installers follow the guidelines set forth in the flooring manufacturer's specific recommendations and the carpet installation standard CRI 104. Before placing the flooring, the adhesive must be allowed an open or dwell time appropriate for the flooring product, jobsite and sub-floor conditions.

PSA™ has an extended working time of up to six hours for vinyl plank, LVT, and sheet vinyl; for carpet tile the working time is up to 24 hours after the initial drying if the area is kept dust free. It is extremely important to maintain recommended notch depth, width and spacing. The proper notch depth is that which will produce adhesive ridges that affect a 100% transfer to both the substrate and the backing of the flooring to include the inner recesses of the texture of the back.

Clean-up: Remove wet adhesive with water and mild soap solution. Use safety solvent to remove dried adhesive. Dried adhesive may be more difficult to remove; therefore, take care to remove adhesive from the surface of the flooring before it dries. DO NOT apply the solvent directly to the flooring material.

LIMITATIONS

- Freeze-thaw stable to 20°F. For best results protect from freezing. Do not stir or agitate while frozen. Allow the adhesive to thaw completely at room temperature.
- PSA™ should not be used for exterior installations.
- Prior to the start of the installation the installer must determine that the job-site conditions meet or exceed all applicable standards of the flooring manufacturer and SILPRO. The sub-floor should be prepared according to the standards and practices set forth in the most recent version of the document ASTM F-710.

PACKAGING

4 Gallon Pail (15.14 Litres)

APPROXIMATE COVERAGE

Trowel recommendations:
(width x depth x separation)

Carpet tile, vinyl plank, LVT:
1/16" x 1/32" x 1/32" U-notch – up to 250 sq. ft./gal

Approved carpet cushion:
1/16" x 1/16" x 1/16" U-notch – up to 175 sq.ft./gal.

Carpet tile and F/G sheet vinyl:
PSA™ may be applied with min. 3/8" nap roller – up to 350 sq. ft./gal.

SHELF LIFE

One year from date of manufacture in an un-opened container when stored at 70°F.

CAUTION!

SILPRO offers products that may contain cement, latex, epoxy, and other chemicals. Please review the Safety Data Sheet before the use of this product.

GUARANTEE

Please call Silpro LLC for copy of guarantee.

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