

# SOURCE Company 601

## PVC/TPO Membrane Adhesive

Source Co. 601 is a specially formulated water-based adhesive designed for the installation of PVC and TPO “membrane” floor coverings that have a scrim backing and for felt backed sheet vinyl intended for full-spread installations. This unique adhesive will not stain or discolor resilient floors and eliminates the need to inventory several different adhesives for various types of membrane and sheet vinyl floor coverings from a variety of manufacturers. 601 can also be used to install broadloom carpet. 601 adhesive is designed to have a quickly developing, aggressive tack. 601 can be used on all grade levels over concrete and approved wood sub-floors in the absence of excessive moisture and alkalinity. The adhesive may also be used over certain non-porous sub-floors.

Source Co. 601 PVC/TPO Membrane Adhesive is nonflammable, contains no carcinogens and is non-toxic. This low odor adhesive is solvent free and has 0 VOCs. 601 is freeze-thaw stable and is protected by the CleanGuard® two-stage antimicrobial. CleanGuard is a specifically formulated broad-spectrum, anti-microbial agent that protects our adhesives and sealers from microorganisms, such as mold or mildew, in both the wet and dry state.

*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 The Source Co. Installation of flooring should be one of the last jobs of any construction project. The sub-floor should be prepared according to the standards and practices set forth in the document ASTM F-710-11.*

Sub-floors must be flat and structurally sound. The sub-floor should be flat within 3/16” in 10’ or 1/8” in 6’. All paint, varnish, oil, wax, finishes and any other bond inhibiting substances must be removed. Smooth or glazed surfaces must be abraded. Repair all joints and cracks with latex-based, portland cement underlayment. Concrete sub-floors must be properly prepared according to the recommended practices detailed in the document ASTM F-710-11. Never sand existing resilient flooring that could contain asbestos. Follow all Federal, State and Local regulations relating to the removal of in-place, asbestos containing material. Very porous sub-floors must be primed with a compatible acrylic primer. 601 can be used over the following sub-floors:

- Concrete above, on or below grade -- slabs on or below grade must have a functioning vapor retarder. This vapor retarder must be in direct contact with the slab. (MVER  $\leq$  3lbs./ASTM F-1869-10, *in situ* RH  $\leq$  75%/ASTM F-2170-09 and a pH of 7-9).
- APA rated plywood underlayment
- Properly prepared gypsum cement

**NOTE:** Before beginning installations with flooring types or over sub-floors not listed contact The Source Co. for recommendations. Particleboard and OSB are **not** recommended underlayments. Strip or plank wood flooring, particleboard and OSB sub-floors should be covered with an approved plywood underlayment (minimum thickness of 1/4”). While some Lauan plywood panels are widely marketed as “underlayments”, there are a variety of qualities and species sold as such. Some varieties present severe problems when used as underlayments. Frequent problems noted are discoloration, indentation, bond failure, and underlayment delamination. The Source Co. will not warrant the adhesive when applied over Lauan plywood, particleboard and OSB. 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](http://www.rfci.org) or by calling 301-340-8580.

Typical trowels and approximate coverage rates (depth x width x spacing) <sup>1</sup>:

**Membrane and Sheet Vinyl** Porous sub-floors: 1/16" x 1/16" x 1/16" U or □ notch trowel 125-150 sq ft/gal.

Non-porous sub-floors: 1/16" x 1/16" x 1/16" V notch trowel: 180-200 sq ft/gal.

**Broadloom carpet** Porous sub-floors: 1/8" x 1/8" x 1/8" U or □ notch trowel 90-110 sq ft/gal.

Non-porous sub-floors: 3/32" x 3/32" x 3/32" V notch trowel: 120-135 sq ft/gal.

**Installation Recommendations:** The installation site should be completely enclosed. All outside doors and windows should be properly installed with latching mechanisms in place. Adequate ventilation should be available. The installation site should have a consistent temperature of 65-75°F (air and sub-floor) and humidity levels should be between 35-55% for a minimum of 24 hours prior to the installation. These conditions must be maintained to ensure the long term success and performance of the installation.

**PVC Membrane Installation:** Please see The Source Company's separate installation instruction sheet for additional application specific information.

1. The flooring and adhesive should be properly acclimated for a minimum of 24 hours prior to the installation.
2. Be familiar with the recommendations and any special instructions from the flooring manufacturer before beginning the installation. Follow the flooring manufacturer's specific recommendations regarding seam sealing.
3. Refer to the information above for specific information regarding sub-floor preparation and site conditions.
4. Spread the adhesive with the appropriate trowel and allow it to develop tack. DO NOT allow the adhesive to "skin-over" or dry. Place the flooring into the "wet-tacky" adhesive while the adhesive is still wet enough to transfer to the back of the flooring.
5. Care must be taken to uniformly apply the adhesive to the substrate. Consideration must be given as to the air and substrate temperature, air movement, porosity of the substrate and other site conditions when determining the appropriate application rate, open and cure times. It is the responsibility of the applicator to determine the correct application rate for specific substrates and the necessary open/cure times for the specific site conditions.
6. Roll the installed flooring with a 75-100lb, three-section roller. Rolling should take place immediately after the flooring is placed into the adhesive. Roll the flooring in north-south and east-west directions. Use a steel hand roller to roll areas that cannot be reached with the three-section roller.
7. It is recommended to minimize traffic over the newly installed flooring for at least 24 hours after the installation has been completed. Do not allow rolling loads, heavy traffic or furniture placement for the first 72 hours after installation. Do not wash or clean the floor for five days after completion of the installation. When replacing furniture and appliances use plywood panels to protect the flooring.

**Specific Technical Data:**

- A. Base: Latex Resin Emulsion
- B. Color: Light Tan
- C. Clean-up: Remove wet adhesive with water and mild soap solution. Use AAT-197 Adhesive Remover 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.
- D. Packaging: 4 gallon pails
- E. Shelf-Life: One year from date of manufacture in un-opened container when stored at 70°F.
- F. Freeze-Thaw Stable to 15°F. Stability and spread-ability can be affected if allowed to freeze. Frozen material should be allowed to thaw at room temperature. DO NOT agitate or stir while frozen.
- G. VOCs: 0 g/l (Calculated per Ca. Rule 1168)
- H. Not recommended for exterior installations.

- **NOTE:** We recommend installers follow the guidelines set forth in the flooring manufacturer's specific recommendations. Before placing the flooring, the adhesive must be allowed an open or dwell time appropriate for the flooring product, jobsite and sub-floor conditions. 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. <sup>1</sup> Determining whether the sub-floor is porous or non-porous is the responsibility of the user. You can check the sub-floor by placing several drops of water in several areas across the sub-floor. The sub-floor is porous if the water is absorbed within a few seconds. If the water beads and is not absorbed within a few seconds the sub-floor is non-porous.

***The Source Company has no control over the use to which others may put the material; we do not guarantee the same result as those described herein will be obtained. Each user of the material should make his own test to determine the material's suitability for his own particular use.***