

SOPRASEAL® STICK VP

SOPRASEAL STICK VP is a self-adhered, vapor permeable, air barrier used for air and moisture mitigation in wall assemblies. SOPRASEAL STICK VP is composed of a tri-laminate sheet composed of polypropylene coated with a high tack adhesive and protected with a silicone release film. SOPRASEAL STICK VP is easy to install on exterior gypsum boards, OSB, concrete and CMU without the use of a primer.

HEALTH & SAFETY

The contractor shall ensure compliance with OSHA, EPA and other local governing and disposal authorities for project-related safety and environmental requirements. Prior to application, persons handling or applying SOPRASEAL STICK VP membrane should familiarize themselves with the applicable Product Data Sheets (PDS), Safety Data Sheets (SDS), specifications, and application instructions. Refer to product SDS for health, safety, and environment related hazards, and take all necessary measures and precautions to comply with specified exposure limits where required. The applicator is responsible for ensuring conditions are appropriate to proceed and proper application methods are followed.

When applying SOPRASEAL STICK VP membrane typical exposure levels will be below OSHA permissible limits for most outdoor applications. When required, air monitoring should be performed by a qualified person to identify any hazards. If respiratory protection is required, use a NIOSH approved air-purifying respirator.

APPLICATION GUIDELINES

STORAGE & HANDLING

Store products on end on a clean and flat surface. Do not store in a leaning or horizontal position as deformation may occur. All materials should be stored in a dry place, out of direct exposure to the elements. Material should be handled in such a manner as to ensure that it remains dry prior to and during installation.

ENVIRONMENTAL CONDITIONS

Monitor the weather during the application of materials including air temperature, surface temperature, surface moisture, sun, and relative humidity. Ensure conditions are satisfactory to begin work and ensure conditions remain satisfactory during the installation. Ensure ambient and surface temperatures are 19 to 104°F (-7 to 40°C) during application.

The product's service temperature range is -40 to 257°F (-40 to 125°C). Do not apply materials to frost or ice covered surfaces. Be sure to check the application temperatures of any accessory products and their primers that will also be used.

Coordination with roofing and below grade waterproofing trades is essential to ensure chemical and adhesive compatibility of all materials at tie-ins and to maintain a continuous water resistive air barrier from roof to wall.

EQUIPMENT LIST

- Weighted hand rollers
- Gloves
- Safety glasses
- Utility knives
- Measuring tape

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SUBSTRATE PREPARATION

SOPRASEAL STICK VP can be applied to exterior gypsum sheathing, exterior grade plywood, OSB, concrete, CMU, and metal without the use of a primer. Some OSB, fire retardant treated exterior plywood and metal surfaces should be tested for adhesive compatibility preferably by way of pull tests in the field using mockups if needed.

Substrates must be smooth and continuous, clean, dry to the touch, and free of oils, waxes and other release agents that may interfere with adhesion. Sheathing boards should be installed flush to each other.

Surface protrusions such as loose mortar, metal projections and fins that may prevent the air barrier from adhering to the wall must be removed or knocked down to a smooth regular surface.

CMU walls must have mortar joints that are struck flush to the wall surface and fully cured.

Any hole over 3/16" (5mm) must be filled with fast-setting cementitious mortar.

When applying SOPRASEAL STICK VP to poured concrete walls or CMU walls refer to ASTM D4258, Standard Practice for Surface Cleaning Concrete for Coating, or D4261, Standard Practice for Surface Cleaning Concrete Masonry Units for Coating.

Adhesion testing is always recommended when applying product to substrates other than those discussed above.

SELF-ADHERED VAPOR PERMEABLE AIR BARRIER APPLICATION GUIDELINES

DETAILING

Board seams less than 1/4" can be immediately covered with the full application of the air barrier.

Board seams 1/4" or greater should be filled with SOPRASEAL Liquid Flashing prior to the application of the full air barrier.

Inside and outside corners should be treated with a 3/4" bead of SOPRASEAL Liquid Flashing and a 6" minimum wide detail strip of SOPRASEAL STICK VP centered over the corner.

Pipe penetrations shall be well secured on both sides of the wall. For gaps around penetrations greater than 1/4" install properly fitted closed cell backer rod and apply SOPRASEAL Liquid Flashing into the joint between the penetration and the wall a minimum 1/4" deep while creating a cove bead a minimum 1" onto the penetration and 1" on to the face of the wall on both sides of the joint. Backer rod is not required for gaps 1/4" or less.

Fastener penetrations through SOPRASEAL STICK VP should be pretreated with SOPRASEAL Liquid Flashing. Fasteners should always be self-drilling and be secured to wall framing with the screw head installed flush with the air barrier surface. Any holes in the air barrier left by fasteners that are removed must be filled to retain the continuity of the air barrier.



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Allow detailing with SOPRASEAL Liquid Flashing to skin (typically 30 minutes) before proceeding with the application of SOPRASEAL STICK VP.

Rough openings may be detailed using SOPRASEAL Liquid Flashing or a self-adhering sheet such as SOPRASEAL Stick 1100T, SOPRASEAL Stick FLASHPRO, or SOPRASOLIN HD. Refer to SOPREMA step details for flashing installations. Priming is required when applying the SOPRASEAL Stick 1100T or SOPRASOLIN HD.

PRIMER

Priming for SOPRASEAL STICK VP is not required on typical wall materials such as exterior gypsum boards, concrete and CMU. Adhesion should be confirmed however for all substrates, especially with applications over existing or in-situ non-structural materials. Priming of building substrates is required when applying the SOPRASEAL STICK 1100T or SOPRASOLIN HD accessory products used for flashing rough openings and detail work that is done prior to the full air barrier application.

INSTALLATION

1. Apply SOPRASEAL STICK VP vertically to the wall by starting to peel the silicone release film from the white side of the roll and adhere the sheet to the substrate making sure it is well aligned.
2. Gradually peel off the remaining release film while adhering the sheet to the wall making sure to adhere it completely and avoiding air pockets and wrinkles.

SELF-ADHERED VAPOR PERMEABLE AIR BARRIER APPLICATION GUIDELINES

3. After each sheet is installed use a weighted hand roller to apply pressure over the entire surface to ensure uniform adhesion to the substrate.

4. Overlapping of sheets in the field of the wall that run horizontally should be a minimum 3" and overlaps that run vertically should be a minimum 2". Laps at window openings and other detailed areas with flashing products should be a minimum 3".

*For tie-ins to below grade waterproofing and roofing products refer to the appropriate tie-in details on our website at www.soprema.us.

5. Insulation may be installed using adhesive backed insulation pins adhered to the installed SOPRASEAL STICK VP. Adhesive backed pins are recommended to avoid penetrating the air barrier.

REPAIRS

Short run wrinkles after application can be center cut away and laid flat without overlapping and then treated and repaired as a hole. Holes in the SOPRASEAL STICK VP that have a longest dimension of 1" or greater shall be repaired with SOPRASEAL STICK VP. The repair must exceed the affected surface area by a minimum of 3". The membrane piece applied as the repair must be sealed around its edges with SOPRASEAL Liquid Flashing. Holes in the membrane that have a longest dimension less than 1" can be sealed with SOPRASEAL Liquid Flashing.



LIMITATIONS

Do not leave SOPRASEAL STICK VP exposed to UV for more than 180 days. After any prolonged exposure the applied product should be inspected by the installer prior to covering to ensure all laps are adhered well and the barrier has remained continuous, repairing any areas that need repair before continuing with the wall assembly. Do not use below grade or in areas subject to water immersion. Adhesion testing should be conducted when applying to existing coatings or concrete sealers.

CLEANUP

SOPRASEAL STICK VP is a nonhazardous material and should be disposed of following your local waste requirements and restrictions. Uncured SOPRASEAL Liquid Flashing can be removed using an alcohol-type solvent such as IPA. Cured SOPRASEAL Liquid Flashing can be removed by carefully abrading or cutting it from the surface.