

APPLICATION INSTRUCTIONS

SOPRASEAL™ STICK VP

SOPRASEAL STICK VP is a self-adhering, 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 self-adhesive and protected with a silicone release film. The self-adhesive properties of the SOPRASEAL STICK VP are unmatched in the industry while the roll size and the high performance adhesive make it very easy to install on exterior gypsum boards, OSB, concrete and CMU without the use of a primer.

ACCESSORY PRODUCTS

SOPRASEAL STICK 1100T - A self-adhering sheet membrane that may be used with a primer as a transition membrane at doors, windows, and penetrations.

SOPRASOLIN® HD - A self-adhering foil faced sheet membrane that may be used with a primer as a transition membrane at doors, windows, and penetrations.

SOPRASEAL LIQUID FLASHING - A 100% solids, low odor, polyether sealant designed for detailing critical rough openings, and filling gaps and voids in the substrate

JOBSITE CONDITIONS

Monitor 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 185°F (-40 to 85°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 trades and below grade waterproofing is essential to ensure chemical and adhesive compatibility of all materials at tie-ins and to maintain a continuous air barrier from roof to wall and to ensure no water can enter or saturate the top of walls or enter the building.

PRODUCT PREPARATION

SOPRASEAL STICK VP must be stored indoors in original packaging at temperatures between 70 and 90°F (21-32°C) and the product should remain above 70°F during the application.

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, clean, dry to the touch, and free of oils, waxes, or other release agents that may interfere with adhesion.

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.

ADHESION TESTING

When needed, conduct 180 degree peel tests to examine adhesion.

1. Choose three (3) or more representative substrate areas to test.
2. Clean and prepare the substrates as specified.
3. Cut 1 in (2.54 cm) wide by 12 in (30.48 cm) long strips of SOPRASEAL STICK VP.
4. Remove release film from 8 of the 12 inches and press product onto the surface with a hand roller to ensure intimate contact with the substrate just as would be done on the wall.

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5. Grip the un-adhered portion of the sample and pull 180 degrees, parallel with the surface. Use a small scale to measure results in pounds of resistance where quantitative results are desired.

6. Results should demonstrate strong resistance to peel and samples that peel away easily from the substrate may indicate further preparation is needed, or alternate materials and/or application methods may be necessary.

DETAILING

CRACKS

Cracks in concrete should be routed out to a minimum ¼" and filled with closed cell backer rod and sealed with SOPRASEAL LIQUID FLASHING. After the cracks are filled apply additional SOPRASEAL LIQUID FLASHING in a zigzag pattern across along the crack and trowel the material smooth so that it overlaps onto the face of the sheathing at least 1" on both sides of the crack.

When concrete walls contain too many irregularities to fill individually consider a full parge coat of cementitious mortar prior to installing the SOPRASEAL STICK VP. Always follow the direction of the design engineer or authority having jurisdiction when introducing additional materials to the job.

PENETRATIONS

All penetrations need to be well secured on both sides of the wall to keep movement to less than ¼" in any direction. For gaps around penetrations greater than ¼" install properly fitted closed cell backer rod and apply SOPRASEAL LIQUID FLASHING into the joint between the penetration and the wall a minimum ¼" deep while creating a cove bead a minimum ½" onto the penetration and ½" on to the face of the wall on both sides of the joint. Backer rod is not required for gaps ¼" or less.

FASTENERS and TIES

All brick or wall ties should be fastened to a wall stud or other structural member of the wall assembly.

If wall ties are installed prior to the air barrier, the wall tie fasteners may be treated with SOPRASEAL LIQUID FLASHING at the time of install.

If wall ties are installed after the air barrier is in place it is recommended to apply a 20-40 mil patch of SOPRASEAL LIQUID FLASHING at the wall tie fastener locations prior to attaching the wall tie. After the wall tie is in place butter around the clean and dry fastener heads with SOPRASEAL LIQUID FLASHING being sure to trowel material into any gaps and then out onto the air barrier at least 2".

WALL OPENINGS (windows & doors)

Window and door openings may be detailed using SOPRASEAL LIQUID FLASHING or a self-adhering sheet such as SOPRASEAL 1100T or SOPRASOLIN HD. Refer to detail drawing number US.WAVB.03.01 on our website.

Please refer to SOPREMA standard flashing details for all of the SOPRASEAL STICK VP applications found on our website at www.soprema.us.

Wet-on-wet application of SOPRASEAL LIQUID FLASHING is acceptable. Wet-on-cured is also acceptable as long as the cured SOPRASEAL LIQUID FLASHING is clean and free of surface water such as condensation.

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

PRIMER

Priming 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 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.

AIR BARRIER APPLICATION

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.

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.

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

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".

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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.

CLEAN UP

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.