

## SOPRASEAL® STICK 1100T

SOPRASEAL STICK 1100T is a polyethylene faced SBS modified asphalt, 40-mil, self-adhered, non-permeable, air and vapor barrier used with a primer to provide air and moisture mitigation in wall assemblies.

### 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 1100T 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 1100T 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.

### 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

Generally, application may proceed when ambient and surface temperature is minimum 14°F (-10°C) and rising providing the substrate is a minimum of 5°F (-15°C) above the dew point temperature, the substrate is clean and dry, and the SOPRASEAL STICK 1100T rolls are warm enough to easily unroll and work into position on the wall. SOPRASEAL STICK 1100T is available in summer grade for application temperatures above 50° F (10° C), and winter grade for application temperatures from 50°F (10°C) down to 14°F (-10°C).

### EQUIPMENT LIST

- Weighted hand rollers
- Safety glasses
- Utility knives
- Approved primers
- 3/8" nap rollers for primer application
- HD roller frames
- Roller extension handle
- Measuring tape

# SOPRASEAL STICK 1100T

## SUBSTRATE PREPARATION

SOPRASEAL STICK 1100T can be applied to exterior gypsum sheathing, exterior grade plywood, OSB, concrete, CMU, and metal. 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.

Poured concrete shall be cured a minimum of 14 Days with a moisture of 6% or less. Moisture can be measured with a non-destructive moisture meter. ICRI Concrete Surface Profile CSP-1 to CSP-5. Ensure concrete block or brick mortar joints are struck flush or bring to a flush using additional mortar or a parge coat. Release agents and curing compounds must be removed from poured concrete prior to application of SOPRASEAL STICK 1100T.

When applying SOPRASEAL STICK 1100T 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.

Metal substrates shall be prepared to a bright metal finish in accordance with SSPC – SP3 (power tool clean) and be prepared a minimum of 1/8" (3mm) beyond the SOPRASEAL STICK 1100T application area.

## SELF-ADHERED AIR AND VAPOR BARRIER APPLICATION GUIDELINES

## PRIMER

Use the jiffy mixer and power drill at low speed (250-500rpm) for 30 seconds making sure to stir the primer from the bottom to the top of the pail for a homogeneous mixture prior to application. Primers should be completely dry before installing the air barrier.

## 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 SEALANT prior to the application of the full air barrier.

*Inside and outside corners* should be treated with a 3/4" bead of SOPRASEAL SEALANT and a 6" minimum wide detail strip of SOPRASEAL STICK 1100T centered over the corner.

*Expansion joints* in frame or concrete wall should be treated with closed cell backer rod and SOPRASEAL SEALANT per SOPREMA Drawing No. US.WAVB.05.11.

*Pipe penetrations* shall be wall 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 SEALANT 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 1100T should be pretreated with SOPRASEAL SEALANT. Fasteners should always be self-drilling and be secured to wall framing with the screw head installed flush with the air barrier surface.



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Any holes in the air barrier left by fasteners that are removed must be filled to retain the continuity of the air barrier.

Allow detailing with SOPRASEAL SEALANT to skin (typically 30 minutes) before proceeding with the application of SOPRASEAL STICK 1100T.

*Rough openings* may be detailed using 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.

## INSTALLATION

1. Mix and apply a medium coat of ELASTOCOL STICK, ELASTOCOL STICK H20, OR ELASTOCOL STICK ZERO primer being sure not to apply too thick as to cause dripping or running down the wall or ponding of primer on horizontal surfaces. Approximately 250 sqft per gallon depending on surface porosity and texture.
2. It is recommended to install the rolls running vertically and work from the bottom up to create shingled overlaps.
3. After the primer is completely dry, apply SOPRASEAL STICK 1100T to the wall by removing only the first 2-3 feet of the release paper from the black side of the roll and adhere the sheet to the substrate making sure it is well aligned before continuing down the wall.
4. Gradually peel off more release film while adhering the sheet to the wall making sure to adhere it completely and avoiding air pockets and wrinkles and then cut off any unused roll at the bottom.

## SELF-ADHERED AIR AND VAPOR BARRIER APPLICATION GUIDELINES

5. After each sheet is installed use a weighted hand roller to apply pressure over the entire surface to ensure uniform adhesion to the substrate.
6. 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".
7. Tears and holes must be repaired using a patch of SOPRASEAL STICK 1100T applied directly to the existing membrane. The patch must be at least 4" larger than the affected surface.

\*For tie-ins to below grade waterproofing and roofing products refer to the appropriate tie-in details on our website at [www.soprema.us](http://www.soprema.us).

8. Insulation may be installed using adhesive backed insulation pins adhered to the installed SOPRASEAL STICK 1100T. Adhesive backed pins are recommended to avoid penetrating the air barrier.

## CLEANUP

Dispose of unused SOPRASEAL STICK 1100T in accordance with local rules and regulations. SOPRASEAL STICK 1100T is not hazardous waste. Consult local, provincial, territory or state authorities to know disposal methods. SOPRASEAL STICK 1100T is not listed by the EPA as hazardous waste according to the Resource Conservation and Recovery Act (RCRA) of the United States. No Environmental Protection Agency (EPA) waste numbers are applicable for this product.

