

SOPRASOLIN HD

SOPRASOLIN HD is a foil 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 **SOPRASOLIN HD** 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 **SOPRASOLIN HD** 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.

ENVIRONMENTAL CONDITIONS

Generally, application may proceed when ambient and surface temperature is minimum 50°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 **SOPRASOLIN HD** rolls are warm enough to easily unroll and work into position on the wall.

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

SUBSTRATE PREPARATION

SOPRASOLIN HD 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.

All substrates must be clean, dry and free of voids, spalled areas, loose aggregate and sharp protrusions as well as loose, unsound or foreign material such as dirt, ice, snow, water, grease, oil, release agents, lacquers, or any other condition that would be detrimental to adhesion.

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.

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Release agents and curing compounds must be removed from poured concrete prior to application of **SOPRASOLIN HD**.

When applying **SOPRASOLIN HD** 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 **SOPRASOLIN HD** application area.

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

Cracks that are 1/16" wide or less shall be pretreated by applying SOPRASEAL SEALANT in a zig zag pattern down the joint and tooling to approximately 20mil thick and at least 2" on either side of the crack. Allow sealant to cure a minimum 2 hours @ 75°F (24°C) and 50% RH before installing **SOPRASOLIN HD**.

Cracks greater than 1/16" wide shall be routed to min. 1/4" wide by 1/4" deep. Install bond breaker tape to the bottom of the clean and dry routing and seal with SOPRASEAL® SEALANT. Allow sealant to cure overnight @ 75°F (24°C) and 50% RH before installing **SOPRASOLIN HD**. All expansion joints consult your SOPREMA Representative.

SELF-ADHERED AIR AND VAPOR BARRIER APPLICATION GUIDELINES

Penetrations such as pipes through foundation walls require a minimum of "1/2 x 1/2" cant bead of SOPRASEAL SEALANT. Allow sealant to cure overnight @ 75°F (24°C) and 50% RH before proceeding. Once SOPRASOLIN HD has been installed apply another cant bead of SOPRASEAL SEALANT sealing the pipe onto the **SOPRASOLIN HD** facer a minimum of 4".

Inside & Outside Corners should be treated with primer and a 12-inch-wide strip of **SOPRASOLIN HD** 6" to each side of the corner. When the field application of air barrier is installed, overlap a minimum 3" onto the corner strips.

Rough openings, below grade and roofing tie-ins: Consult www.soprema.us for detail drawings and for job specific details or questions contact your local SOPREMA Representative.

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 sq. ft. 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 **SOPRASOLIN HD** 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.
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 **SOPRASOLIN HD** 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.

8. Insulation may be installed using adhesive backed insulation pins adhered to the installed **SOPRASOLIN HD**. Adhesive backed pins are recommended to avoid penetrating the air barrier.

CLEANUP

Dispose of unused **SOPRASOLIN HD** in accordance with local rules and regulations. **SOPRASOLIN HD** is not hazardous waste. Consult local, provincial, territory or state authorities to know disposal methods. **SOPRASOLIN HD** 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.