

## OVERVIEW & FEATURES

VaporSmart SA is a self-adhering air barrier/vapor retarder for roof application that can also serve as a temporary waterproofing membrane to be used during a roof system installation. The membrane consists of SBS modified bitumen. The surfacing of the membrane consists of a woven polypropylene film that provides UV resistance, slip resistance, and surface protection that allows the membrane to temporarily be exposed to the elements. The membrane also consists of a split-release film on the backside to aid in the self-adhering application.

**Aggressive Adhesion** – VaporSmart SA is formulated with SBS modified asphalt for reliable protection. VaporSmart SA exhibits superior adhesion to the roof deck and strong lap strength, ensuring long-term watertight protection. Quality-controlled manufacturing ensures uniform film thickness throughout each roll.

**Self-Sealing** – The rubberized adhesive layer also exhibits self-healing capabilities and accommodates the use of fasteners, staples, nails, and screws while maintaining a watertight seal.

**Ease of Installation** – VaporSmart SA has a strong adhesive backing with peel-off split release film that is very simple to install and saves time and labor costs on the job.

## APPLICATION

Prior to installation, unroll VaporSmart SA onto the roof surface and allow it to relax. When installing to steel deck, processing oils must be removed.

Place VaporSmart SA in the desired position. Remove the protective release film from the underside of the sheet and firmly apply pressure with a suitable heavy weighted roller to ensure 100% adhesion.

Side laps should overlap a minimum of 3" as indicated by the lap lines on the product. Overlap end laps a minimum of 6". At end laps, install a sheet metal plate to support the end lap between deck ribs. Stagger the end laps 12" (305 mm).

## PRECAUTIONS

- VaporSmart SA must be kept out of direct sunlight and in its original packaging until it is ready to be installed.
- Hot asphalt cannot be used to adhere roofing materials to VaporSmart SA membrane.
- When installing to steel deck, processing oils must be removed.
- Apply when the ambient air temperature, roll temperature and substrate temperature are between 50°F (10°C) and 100°F (38°C).
- Application in extreme temperatures will negatively affect adhesion.
- All surfaces to be waterproofed with this product must be smooth, dry, and free of projections.
- Never install this product over any old or existing roofing materials.
- When installing directly to wood deck, substrate must be primed with SA Primer.

## STORAGE

Store roll goods in their original packaging, indoors on pallets protected from the elements. VaporSmart SA needs to be kept at 70°F (21°C) for at least 24 hours prior to application. Rolls and containers that are improperly stored or have been warehoused for prolonged periods of time could potentially be damaged or exceed their shelf life. Temperature should range from 60-80 °F (15.5 °C to 26.6 °C) and should not exceed 110 °F (43.3 °C). Indoor ventilated storage is recommended, specifically when ambient temperature is below 60 °F (15.5 °C) or above 80 °F (26.6 °C).

Technical Data	VaporSmart® SA
<b>Thickness</b> (ASTM D 5147)	45 mils (1.14mm)
<b>Tensile Strength</b> (ASTM D 5147)	MD 125 lbf./in. (21.89 kN/m) XD 90 lbf./in. (15.76 kN/m)
<b>Elongation</b> (ASTM D 5147)	MD 23 XD 20
<b>Tear Strength</b> (ASTM D 4073)	MD 175 lbf. (778 N) XD 120 lbf. (534 N)
<b>Static Puncture Resistance</b> (ASTM D 5602)	Pass 42 lbf. (187 N)
<b>Lap Adhesion</b> (ASTM D 1876)	20 pli
<b>Peel Resistance on Steel</b> (ASTM D 903)	10 lbf./in. (1.75 kN/m)
<b>Peel Resistance on Plywood</b> (ASTM D 903)	5 lbf./in. (0.87 kN/m)
<b>Low Temperature Flexibility, F</b> (ASTM D 5147)	MD Pass -25°F (-32°C) XD Pass -20°F (-28°C)
<b>Water Vapor Permeance, perm (ng/Pa.s.m2)</b> (ASTM E 96, Method B)	0
<b>Air Permeability L/s.m2</b> (ASTM E 2178)	<0.025 L/s.m2

Roll Dimensions	VaporSmart® SA
<b>Width</b>	3 ft. 3 in. (1 m)
<b>Length</b>	75 ft. (22.26 m)
<b>Weight</b>	62.5 lbs. (28 kg)
<b>Nominal Thickness</b>	45 mils (1,143 microns)
<b>Net Coverage</b>	225 sq. ft. (21 m2)
<b>Packaging</b>	30 rolls/pallet (Individually boxed)

For specific application recommendations, please contact your local Garland Representative or Garland Technical Department.

For more information, visit us at: [www.garlandco.com](http://www.garlandco.com)

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Tests verified by independent laboratories. Actual roof performance specifications will vary depending on test speed and temperature. Data reflects samples randomly collected. A ± 10% variation may be experienced. The above data supersedes all previously published information. Consult your local Garland Representative or Garland Corporate Office for more information.

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