

POLYVAP™ SA S

LOW SLOPE SELF-ADHERED AIR/VAPOR BARRIER

PRODUCT DESCRIPTION

Polyvap SA S is a non-asphaltic self-adhered vapor and air barrier for use in commercial low-slope roofing applications. This membrane features a high strength polypropylene sheet with an aggressive acrylic based adhesive on the bottom that bonds to most substrates.

Polyvap SA S is a carrierless membrane and surfaced with a slip resistant top to enhance walkability. This membrane can be used as a temporary roof for up to 180 days.

The top surface is compatible with approved coverboards and Polytherm insulation; mechanically attached or adhered with Polyglass LRF (low-rise foam) adhesive. Polyglass offers a variety of waterproofing membranes to complete the roof assembly.

FEATURES AND BENEFITS

- Aggressive self-adhesive for wind uplift performance
- Impermeable to air, moisture, and water
- Slip resistant top surface compatible with Polyglass LRF (low-rise foam) adhesive.
- Weather install temperatures from 20°F and rising
- Direct to metal deck application; no primer required

TECHNICAL DESCRIPTION*

| Physical Properties | ASTM Method | Typical Performance |
|--|--|--|
| Elongation | ASTM D412 | 409% - MD 276% - XMD |
| Tensile Strength | ASTM D412 | 16.96 MPa (2460 psi) - MD 11.87 MPa (1721 psi) - XMD |
| Dry Tensile Strength | ASTM D882 | 3.85 N/mm (22 lbf/in) - MD 3.85 N/mm (22 lbf/in) - XMD |
| Elongation at Break | ASTM D882 | 541% - MD 617% - XMD |
| Dry Breaking Force (Grab method) MD ≥40 XMD ≥35 | ASTM D5034 | 338 N (76 lbf) - MD 356 N (80 lbf) - XMD |
| Elongation at Break | ASTM D5034 | 120% - MD 157% - XMD |
| Minimum Puncture Resistance | ASTM E154 | Deflection 5.84 cm (2.3) Max Load 249 N (56 lbf) |
| Cold Mandrel Bend Test | AC38 Section 3.3.4 | PASS |
| Weathering Tests | AC38 Section 4.1.2 UV Exposure AC38 Section 4.1.3 Accelerated Aging | PASS |
| Water Vapor Transmission Desiccant Method Procedure A 23°C (73.4°F) 0-50 %RH | ASTM E96 | 0.0173 Perm (grain/h•ft²•inchHg) @23°C 100%RH 0.992 ng/Pa•s•m² |
| Water Vapor Transmission Using Modulated Infrared Sensor | ASTM F1249 | 0.0193 Perm (grain/h•ft²•inchHg) 1.10 ng/Pa•s•m² (23°C 0-50 %RH) |
| Air Permeance | ASTM E2178 @75 Pa | 0.00912 L/s•m² @ 75 Pa (0.0018 cfm/ft² @ 1.57 psf) |
| Nail Sealability | ASTM D1970 | PASS |
| Water Resistance (Control after Weathering) | AATCC 127 | PASS |
| Flame Spread Smoke Developed | ASTM E84 | Class A Flame Spread 5 Smoke Developed 15 |
| UL | UL790 | PASS |
| Uplift Strength | FM LPDS 1-52 | Steel Deck 11.12 kN/m² (232.5 psf) |
| 90-Degree Peel Strength | ASTM D3330 | Steel Deck 879 N/m (5.02 lb/in) Gypsum Board 751 N/m (4.29 lb/in) |
| Wear Resistance | Wheelbarrow Testing | PASS |

*The properties in this table are "as manufactured" unless otherwise noted.



PRODUCT DATA**

Net Coverage (Approx)473 ft² (44 m²)
Gross Coverage500 ft² (46.5 m²)
Weight (Approx) 48 lbs (22 kg)
Thickness (Nominal) 10 mils (0.25 mm)
Roll Size 100' x 60" (30.5 m x 1.5 m)
Rolls/Pallet.....60

**All values are nominal at time of manufacturing

APPLICABLE STANDARDS

- UL Classified



PRODUCT CODES

- PVSAS

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APPLICATION INSTRUCTIONS

Polyvap SA S is a self-adhered, non-asphaltic air and vapor barrier designed for applications direct to deck, or over a thermal barrier.

Acceptable Substrates

- Galvanized or painted steel deck
- Thermal board
- OSB
- Plywood
- Gypsum

For additional substrate requirements and information refer to a Polyglass Technical Representative

Surface Preparation

Steel surfaces must be clear of any oil residue and moisture. Wood decks must be dry to the touch and clear of dirt and dust. Polyvap SA S can be installed in 20°F (-6°C) and rising temperatures without the use of a primer. Polyvap SA S surface is white, reducing the overall temperature gain during installation.

Application

For steel decks align the membrane so both end laps hit the top of the flutes.

1. Before installing Polyvap SA S cut it into manageable lengths prior to placement on the roof deck. Position the material in place by starting at the lowest point of the roof pitch.
 2. Once the sheet is position start by removing several inches off the top portion of the release film by pulling it upwards and away from the top of the sheet, press the exposed backside adhesive of the Polyvap SA S onto the roof deck to help prevent movement of the sheet.
 3. Continue removing the rest of the release film by pulling the top half at a 45° angle.
 4. Next apply firm, even pressure from the center to the outer edges ensuring full contact with the substrate.
 5. Remove the remaining bottom half of the release film, by pulling the film in a downward and 45° angle pulling it smoothly from end to end.
 6. Thoroughly roll the Polyvap SA S with a 75 lb split faced roller uniformly across the entire sheet to guarantee complete and even contact. Maintain the roller on the top flutes avoiding the center of the flutes and damaging the membrane.
 7. Install the membrane so all laps shed water by position succeeding sheets with overlapping seams. Lineup side laps with the lay line provided on the surface of the membrane.
 8. At the end of each roll, install a metal sheet plate (24 GA x 6"W) to support the end lap between flutes. Ensure 6" (15.2 cm) end laps are maintained on metal sheet plate for each course during installation. Hand roll end lap ensuring uniform even pressure to the seam.
- For end lap details and additional installation procedures refer to our website at www.polyglass.us

Caution: Release liners are slippery. To prevent injury, liner should be removed from under foot as soon as membrane is installed and disposed of properly.

MANUFACTURING FACILITIES

- Fernley, NV
- Hazleton, PA
- Waco, TX
- Winter Haven, FL

CORPORATE HEADQUARTERS

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Product Disclaimer: Unless otherwise incorporated into or part of a supplemental manufacturer's warranty, Polyglass warrants its product(s) against manufacturing defects in its product that directly results in leakage for a period of 5 years.

Refer to safety data sheet (SDS) for specific data and handling of our products. All data furnished refers to standard production and is given in good faith within the applicable manufacturing and testing tolerances.

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