

VERTIWRAP™ NPS

PRIMERLESS, SELF-ADHERED, WATER RESISTIVE NON-PERMEABLE AIR AND VAPOR BARRIER

PRODUCT DESCRIPTION

VertiWrap NPS air barrier membrane prevents the passage of air, water vapor, and liquid water from entering the wall assembly. VertiWrap NPS locks moisture out of the wall assembly, increasing the wall durability and comfort of the building occupants. Primerless and Self-Adhered to a variety of substrates, including glass-mat exterior grade sheathing, for quick and easy install. VertiWrap NPS is compliant in a wide variety of NFPA 285 Wall Assemblies.

FEATURES AND BENEFITS

- Impermeable to air, liquid water, and water vapor
- Primerless, airtight adhesion to glass mat sheathing down to 25°F
- Immediate resistance to wind-driven rain
- Fully adhered to substrate eliminating water migration
- Seals around fasteners used in brick ties, termination bars, etc.
- 6 months UV exposure
- NFPA 285 compliant in most wall assemblies
- AAMA 711 compliant detail tape available in 6", 9", 12" widths

SYSTEM COMPONENTS

- VertiWrap VPS
- VertiWrap VPL
- VertiWrap NPL
- VertiSeal 50
- VertiWrap TWF

TECHNICAL DESCRIPTION

Property	Test Method	Typical Result
Color		White with Green Print
Thickness, nominal		12 mils
Application Temperature, min		+25°F (-3.9°C)
Water Resistance	ASTM E331	PASS @ > 15 psf
Water Resistance	AATCC TM127 Method B Option 2	PASS - 55 cm static water head for 5 hours without water leakage
Water Vapor Permeance	ASTM E96	< 0.1 perms
Air Leakage (Membrane)	ASTM E2178	< 0.02 L/s.m. ²
Air Leakage through Assembly	ASTM E2357	PASS
Tensile Strength, Dry	ASTM D882	> 40 lbf / in per in width
Average Break Force, Dry	ASTM D5034	> 40 lb MD > 35 lb XD
Peel Adhesion to DensGlass ¹	ASTM D903	> 4.5 lbf/in
Lap Adhesion @ 25°F ²	ASTM D903 Modified	> 4.5 lbf/in
Nail Sealability	ASTM D1970 Sec 8.9	PASS
Low Temperature Flexibility	AC38 Section 3.34	PASS
UV Exposure	AC38 Section 4.1.2	PASS
Flame Spread	ASTM E84	Class A
Smoke Developed	ASTM E84	Class A
NFPA 285	NFPA 285	PASS

1. At room temperature after 24 hours of conditioning at test temperature and pull speed of 6 in/min
2. At 25°F after 24 hours of conditioning at test temperature and pull speed of 6 in/min



PRODUCT DATA

3' x 75' (0.9 m x 22.8 m)

225 ft²/roll (20.9 m²)

Weight per roll 15.1 lb (6.8 kg)

40 rolls per pallet

APPROVALS & CERTIFICATIONS

- NFPA 285 Compliant
- 6", 9", and 12" widths all comply with AAMA 711

WHERE TO USE

- Above grade walls
- Transition details
- Windows and doors

PRODUCT CODES

- VertiWrap NPS 36" – VTWNPS3675
- VertiWrap NPS 12" – VTWNPS1275
- VertiWrap NPS 9" – VTWNPS0975
- VertiWrap NPS 6" – VTWNPS0675



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STORAGE AND SHELF LIFE

12 month shelf-life if stored in its original packaging in a dry environment at a temperature between 40°F and 90°F (4°C and 32°C). Store VertiWrap NPS off the ground and protected from moisture.

LIMITATIONS

Reference installation guide or contact Technical Service for limitations and proper application guidance.

- VertiWrap NPS cannot be permanently exposed to UV and must be protected or covered with the exterior cladding within 6 months of installation.
- VertiWrap NPS has a maximum in-service temperature of 200°F (93°C).

SUITABLE SUBSTRATES AND SURFACE PREPARATION

EXTERIOR GRADE GLASS MAT SHEATHING, PLYWOOD OR OSB

Panel joints should be securely fastened, flush and spaced according to the manufacturer's requirements. Any gaps greater than 1/4" must be filled with VertiSeal 50 or a Polyglass approved sealant and tooled flush. Damaged sheathing must be repaired according to the manufacturer's requirements. Mapeprime S710 or solvent based spray adhesive on gypsum cut edges is advised prior to installing VertiWrap products. Wood substrates must contain a moisture content of less than 18%.

CONCRETE MASONRY UNIT (CMU)

CMU joints should be struck full and flush, and mortar must be allowed to cure for a minimum of 3 days prior to application of the VertiWrap system. All mortar must be removed from pre-installed brick ties. CMU substrates will require the use of Mapeprime S710 Primer.

CONCRETE

Remove any loose aggregate and repair spalled areas or other deficiencies in the concrete. Allow concrete to cure for a minimum of 7 days. Concrete substrates will require the use of Mapeprime S710 Primer.

INSTALLATION

Ensure that wall assemblies are dried in and that the top of walls are protected from water intrusion prior to installing.

VertiWrap NPS can be installed vertically or horizontally with minimum side and end laps of 2". All laps should be installed in a fashion that sheds water. Ensure that all horizontal or vertical end laps are offset by a minimum of 12".

Roll the VertiWrap NPS with a hand roller (linoleum roller or similar) firmly in place during application.

The VertiWrap NPS Membrane can be stopped or continued into framed openings. All framed openings should be flashed with VertiWrap NPS Flashing or VertiSeal 50 according to each product's application guidelines and standard Polyglass details. In applications such as soffits or ceilings the VertiWrap NPS may require additional fastening. Fastening can be done within the lap prior to the installation of the next sheet and or as needed within the field of the membrane. Any fasteners used in the field of the VertiWrap NPS should be sealed with VertiSeal 50 or a Polyglass approved sealant.

All penetrations through the VertiWrap system must be fully secured. VertiSeal 50 or a Polyglass approved sealant must be applied around all penetrations through the VertiWrap NPS membrane. VertiSeal 50 may also be applied to all post applied fasteners at the discretion of the installer or as part of the project design requirements.

At the top of the wall the VertiWrap must be terminated with VertiSeal 50 or a Polyglass approved sealant. Sealant may also be required at the end of each working day to ensure the VertiWrap NPS remains firmly in place and any precipitation cannot undermine the membrane.

REPAIRS

The system should be inspected for damage prior to concealment.

Repairs to damaged areas should be made by first removing any unbonded membrane and then installing VertiWrap NPS a min. of 6" past the damaged area and sealing any non-water shedding edges with VertiSeal 50 or a Polyglass approved sealant.

TEMPERATURE

Vertiwrap NPS may be applied without primer to dry substrates per substrate and surface preparations guidelines when air and surface temperature are 25°F (-4°C) and rising.



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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 1 year. 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. Polyglass U.S.A., Inc., reserves the right to improve and change its products at any time without prior notice. Polyglass U.S.A., Inc. cannot be held responsible for the use of its products under conditions beyond its own control. For most current product data, detail drawings and warranty information, visit www.polyglass.us



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