

# VERTIWRAP™ NPL LT

## LOW TEMPERATURE, HIGH PERFORMANCE, SOLVENT BASED, FLUID APPLIED NON-PERMEABLE AIR/VAPOR BARRIER FOR COMMERCIAL CAVITY WALLS

### PRODUCT DESCRIPTION

VertiWrap NPL LT is a solvent based air barrier membrane that prevents the passage of air, water vapor and liquid water from entering the wall assembly. VertiWrap NPL LT reduces the build up of moisture in the wall assembly, increasing the wall durability and comfort of the building occupants. VertiWrap NPL LT is compliant in a wide variety of NFPA 285 wall assemblies.

### FEATURES AND BENEFITS

- Can be installed at temperatures as low as 0°F (-18°C)
- Monolithic membrane fully adheres to substrate virtually eliminating water migrations
- 12 month UV exposure
- Single pass application
- 45 mils wet, 25 mils dry
- Designed to be sprayed, rolled, or trowel applied
- Seals around fasteners used in brick ties, terminations bars, etc.
- NFPA 285 compliant in most wall assemblies

### SYSTEM COMPONENTS

- VertiWrap NPS
- VertiWrap TWF
- VertiSeal 50

### TECHNICAL DATA

Flash Point:	Flammable, less than 100°F
Drying Time:	(dependent on ambient temperatures & humidity)
Tack Free	1 hour
Full Cure	24-48 hours
VOC Content:	< 600 g/l
A.I.M. Category:	Waterproofing Sealers and Treatments Maximum VOC 600 g/l

### TESTING DATA

Property	Test Method	Typical Result
Color		Dark Grey
Thickness, Nominal		45 mil WFT/ 25 mil DFT
Application Temperature, Min.		+0°F (-18°C)
Air Leakage (Membrane)	ASTM E2178	< 0.02 L/s.m. <sup>2</sup>
Air Leakage of Air Assemblies	ASTM E2357	PASS
Flame Spread	ASTM E84	Class A, < 25
Smoke Developed	ASTM E84	Class A, < 450
Water Vapor Transmission/Vapor Permeability, Method B	ASTM E96	< 0.1 perms
Crack Bridging Ability	ASTM C1305	Pass - no cracking/loss of adhesion after 10 cycles
Extensibility After Heat Aging	ASTM C1522	No cracks, tears or holes
Elongation	N/A	600%
Resistance to Water	ASTM D2939	No blistering or softening
Water Resistance	AATCC 127	Pass
Nail Sealability	ASTM D1970	Pass

### LIMITATIONS

- VertiWrap NPL LT cannot be permanently exposed to UV and must be protected with the exterior cladding within 12 months of installation
- VertiWrap NP LT has a maximum in-service temperature of 180°F (82°C)

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### PRODUCT DATA

#### Packaging

- 5 Gallon (18.9 Liters) Pail
- 55 Gallon (208 Liters) Drum

### APPROVALS & CERTIFICATIONS

- NFPA 285 Compliant
- IAPMO UES Listed: UEL 5057, UEL 5059



### WHERE TO USE

- Suitable for use on commercial cavity walls. May be applied to any properly prepared exterior concrete, block, plywood, green treated wood, OSB board and exterior grade gypsum sheeting.
- Above grade walls

### PRODUCT CODES

- 5 gal – VTWNPLT05G
- 55 gal – VTWNPLT55G



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### 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. All sheathing joints must be filled with VertiSeal 50, extending approximately ½" on each side of the joint at a minimum thickness of 15 mils. VertiWrap NPL LT can be installed over VertiSeal 50 once the sealant is tack free. Damaged sheathing must be repaired according to the manufacturer's requirements prior to application. Mapeprime S710 or solvent based spray adhesive on gypsum cut edges is advised prior to installing VertiWrap products.

#### 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.

#### CONCRETE

Remove any loose aggregate and repair spalled areas or other deficiencies in the concrete. Bugholes greater than ¼" should be repaired with a non-shrink grout and all form match lines removed. Allow concrete to cure for a minimum of 7 days.

### PRODUCT APPLICATION

#### TEMPERATURE

VertiWrap NPL LT may be applied to clean, dry, frost free substrates per surface preparation guidelines when air and surface temperature are 0°F (-18°C) to 100°F (38°C). Do not apply if temperature are expected to fall below 0°F (18°C) prior to curing.

#### INSTALLATION

- Ensure that wall assemblies are dried in and that the top of walls are protected from water intrusion prior to installing. All substrates must be clean, dry and free of frost.
- VertiWrap NPL LT is ready to use and requires no mixing unless separation is observed. Installation can be achieved by standard roller, power roller, brush or spray. For spray applications a pneumatic or airless sprayer with a working pressure of 3500 psi and a 45:1 lower unit capable of delivering approx. 3 gallons per minute is advised. Typical spray equipment would be a Graco 733/833 with a hose combination of ½" and ¾" and tip sizes ranging from 0.035–0.039. Consult Polyglass Technical Services for additional details on spray equipment.
- Treat all outside corners and transitions to dissimilar substrates with a minimum 6" (15 cm) strip of VertiWrap NPS centered over the corner.

- All penetrations through the VertiWrap NPL LT system must be fully secured. VertiSeal 50 or a Polyglass approved sealant must be applied around all penetrations through the VertiWrap NPL LT 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.
- VertiWrap NPS can be used at window and door openings, alternatively VertiWrap NPL LT can be used as flashing at openings after pre-treating the interface between the sheathing and framing with VertiSeal 50. See standard Polyglass details for additional detailing instructions.

#### COVERAGE

- VertiWrap NPL LT applied at 45 wet mils will provide a typical coverage rate of 40 ft²/gal to achieve a 25 mil dry film thickness.
- Coverage rates may vary depending on the substrate porosity and texture of the substrate. Very porous substrates will result in lower coverage rates.

#### 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 NPL LT a min. of 6" past the damaged area.

#### CLEANING

Xylene or other high flash solvent be used to clean tools and equipment. Pump the solvent through equipment and hoses to remove all material / residue. Follow all safety precautions from the applicable solvent manufacturer / supplier.



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## **CORPORATE HEADQUARTERS**

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## **Product Disclaimer:**

For professional use only.

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](http://www.polyglass.us)



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