VERTIWRAP™ TWF
SELF-ADHERED FLEXIBLE THROUGH WALL FLASHING FOR CAVITY WALL APPLICATIONS

PRODUCT DESCRIPTION

Vertiwrap TWF is an impermeable self-adhered through wall flashing membrane designed to provide water management in cavity wall applications. Vertiwrap TWF is constructed with an aggressive 12 mil proprietary adhesive and an 8 mil cross laminated high density polyethylene film.

FEATURES AND BENEFITS

- Impermeable to air, liquid water, and water vapor
- Fully adhered to substrate eliminating water migration
- 8 mil cross laminated film for enhanced mechanical properties
- Flexible and easily conforming to complex geometries
- 6 month UV exposure

SYSTEM COMPONENTS

- Vertiwrap TWF
- Vertiseal 50
- Mapeprime S710
- Mapeprime 720W
- For use as a stand-alone system or with Vertiwrap VPS, NPS, VPL and NPL Membranes

TECHNICAL DESCRIPTION

Property	Test Method	Vertiwrap TWF Typical Value
Thickness OAT	ASTM D3767(A)	21
Low Temperature Flexibility	ASTM D1970	Pass
Tensile Strength Membrane	ASTM D412	3600 psi - MD 4000 psi - XMD
Elongation	ASTM D412	300% - MD 200% - XMD
Puncture Resistance	ASTM E154	110 lbs
Peel Adhesion to Concrete at 25°F with primer[1]	ASTM D903	15 pli
Peel Adhesion to CMU at 25°F with primer[1]	ASTM D903	15 pli
Permeance to Water Vapor	ASTM E96 (WET)	0.03 perms

[1] Substrates primed with Mapeprime S710 primer.

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 off the ground and protected from moisture.

LIMITATIONS

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

PRODUCT DATA

12" Roll
Roll Size ...... 12" × 75' (30 cm × 22.9 m)
Rolls/Carton 2
Gross Weight .... 20.2 lb
Net Weight................................. 20 lb
Cartons/Pallet 98

18" Roll
Roll Size ...... 18" × 75' (45 cm × 22.9 m)
Rolls/Carton 2
Gross Weight .... 30.2 lb
Net Weight................................. 30 lb
Cartons/Pallet 84

24" Roll
Roll Size ...... 24" × 75' (60 cm × 22.9 m)
Rolls/Carton 1
Gross Weight .... 20.2 lb
Net Weight................................. 20 lb
Cartons/Pallet 98

WHERE TO USE

- Cavity wall applications
- Shelf angles
- Base of Wall
- Transitions

PRODUCT CODES

- VTWTWFAL1275 (12" Roll)
- VTWTWFAL1875 (18" Roll)
- VTWTWFAL2475 (24" Roll)

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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. Any gaps greater than ¼" 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 TWF. All mortar must be removed from pre-installed brick ties. CMU substrates will require the use of Mapeprime S710 Primer if adhesion is marginal.

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 if adhesion is marginal.

PRODUCT APPLICATION

TEMPERATURE

Vertiwrap TWF may be applied without primer to dry exterior grade glass mat sheathing, plywood or OSB substrates per substrate and surface preparations guidelines when air and surface temperature are 25°F (-4°C) and rising. Concrete and CMU may require primer if adhesion is marginal per substrate and surface preparation guidelines.

INSTALLATION

- Ensure that wall assemblies are dried in and that the top of walls are protected from water intrusion prior to installing.
- Vertiwrap TWF can be installed vertically or horizontally with minimum side and end laps of 2" All horizontal laps should be installed in a fashion that sheds water. Vertiseal 50 or a Polyglass approved sealant must be applied to all laps, seams, edges, cuts, penetrations, and top terminations of the Vertiwrap TWF. Terminations bars and reglets are acceptable but not required when installing Vertiwrap TWF.
- Roll the Vertiwrap TWF with a steel hand roller firmly in place during application.
- Vertiwrap TWF should be held back ½" (13 mm) from the face of the masonry and should always be supported across the wall cavity.

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 TWF a min. of 6" past the damaged area and sealing any non-water shedding edges with VertiSeal 50 or a Polyglass approved sealant.

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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