



Self-Adhering Sheet Membrane Waterproofing

Section 071326 Self-Adhering Sheet Waterproofing

1. Product Name

POLY WALL SELF-ADHERING SHEET MEMBRANE

2. Manufacturer

Polyguard Products, Inc.
Ennis, TX 75119
(800) 846-3020
www.poly-wall.com

3. Product Description

BASIC USE

POLY WALL SELF-ADHERING SHEET MEMBRANE waterproofing system is designed for application on residential concrete and concrete masonry below grade. Typical applications include substrate transitions such as foundation walls to above-grade structural walls.

COMPOSITION & MATERIALS

POLY WALL SELF-ADHERING SHEET MEMBRANE is a cold-applied, self-adhesive, elastomeric membrane consisting of a layer of polymer-modified asphalt laminated to a layer of high-density polyethylene. POLY WALL SELF-ADHERING SHEET MEMBRANE is designed to provide a barrier to air, water, and moisture passage; and bridge small shrinkage cracks up to 1/16th-inch or bridge gaps between connecting substrates. POLY WALL SELF-ADHERING SHEET MEMBRANE is available at 25-, 40-, or 60-mil thickness and in a variety of widths: from 6-inch flashing to 38.5-inch wide sheet membrane.

ADDITIONAL SYSTEM MATERIAL

POLY WALL Stretch is a thermoplastic, elastomeric, liquid-applied protective film, compatible with the system as the primer for the POLY WALL SELF-ADHERING SHEET MEMBRANE system. This primer coat is designed to improve adhesion and reduce the possibility of bladders forming at the interface of

the substrate and the POLY WALL SELF-ADHERING SHEET MEMBRANE. Use of POLY WALL Stretch as primer provides a quality material and added assurance to seal wall penetrations.

4. Technical Data

See Table

5. Installation

GENERAL

Read and carefully follow the instructions contained on this spec sheet as well as in the most current Manufacturer's Guide Specification. Concrete and concrete masonry (CMU) to be constructed without integral moisture repellent, and CMU shall be constructed with type M or type S mortar in accordance with ASTM C270, without voids and struck flush. Allow for typical cure time of 3 days (longer cure time with lower ambient temperatures) before application.

SURFACE PREPARATION

A clean, dry, smooth surface is required. Allow concrete or CMU walls three day curing time. Surface must be free of frost, ice or moveable surface water. Fill all surface defects, voids and exposed aggregate with concrete or a Portland cement grout prior to primer application; or fill with POLY WALL Hole Filler or POLY WALL Fiber Flash. All rough concrete, surface defects and surface protrusions must be made smooth and any control joints filled flush.

PRIMING

Prime the surface with POLY WALL Stretch at a rate of 40 square feet per gallon (40 wet mils). Allow to dry prior to the application of the POLY WALL SELF-ADHERING SHEET MEMBRANE. Drying time will vary depending on temperature and air movement conditions. Test for dryness by feeling surface of the film. If the film is dry to the touch and does not deform when a hand is wiped across the surface, the POLY WALL SELF-

ADHERING SHEET MEMBRANE may be installed.

DETAIL

Apply POLY WALL Self-Adhering Flashing to openings and large penetrations in the substrate.

MEMBRANE APPLICATION

Once detailing is complete, apply POLY WALL SELF-ADHERING SHEET MEMBRANE vertically across the wall with shingle-like overlaps. Side laps must lap at least 2.5 inches and ends must lap at least 12 inches. Roll or press all areas firmly to achieve a firm seal. Caulk and seal all surface projection intersections with a layer of POLY WALL SELF-ADHERING SHEET MEMBRANE Flashing. Seal termination ends with POLY WALL Hole Filler or POLY WALL Fiber Flash. Inspect for complete coverage.

For best results seal top of wall termination points with a plastic or stainless steel termination bar. All membrane termination points should be at least 3 inches above the level of any possible standing water. Copper or Stainless steel counter flashing should be used anywhere the membrane would otherwise be exposed to sunlight or other strong ultraviolet radiation (UV) sources.

PROTECTION

POLY WALL SELF-ADHERING SHEET MEMBRANE can remain exposed for no more than 30 days. Install drain tile system inside and out. Cover membrane with protection board before backfilling. Follow backfill recommendations found in the Manufacturer's Guide Specification. Protect from damage by other trades.

MEMBRANE REPAIR

Inspect membrane thoroughly prior to covering. Repair cuts, tears, inadequately-sealed seams, and opened fish mouths with a patch of membrane extending at least 6 inches

Moisture & air stop here.



from repair site in all directions. Seal patch edges with POLY WALL Fiber Flash.

STORAGE

POLY WALL SELF-ADHERING SHEET MEMBRANE should be stored out of direct sunlight and at temperatures between 50°F and 80°F.

6. Availability & Cost

COST

Contact Polyguard Products, Inc. or your nearest Representative or Distributor for pricing information.

AVAILABILITY

POLY WALL SELF-ADHERING SHEET MEMBRANE System is available through a network of Manufacturer's Representatives, Distributors, and Qualified Installers. View the POLY WALL website or contact Polyguard Products, Inc. for information on the nearest manufacturer's representative or nearest distributor to your area.

7. Warranty

All POLY WALL products are warranted to be free of manufacturer's defects for a period of five (5) years. Contact Polyguard Products, Inc. for further information.

8. Technical Services

Technical information and advice are available from Polyguard Products, Inc. as well as through your nearest Manufacturer's Representative or Distributor.

POLY WALL SELF-ADHERING SHEET MEMBRANE		
PROPERTY	TEST PROCEDURE	TYPICAL VALUE
Air permeance	ASTM E 2178-01	0.0014 cfm/ft²
Tensile strength (wet)	Membrane: ASTM D412 Film: ASTM D 882	325 PSI 6500 PSI
Elongation	ASTM D 412	600%
Permeance	ASTM E 96 Method B	0.05 grains/sq.ft./hr./in. Hg. at 80 deg F (Perms)
Peel adhesion	ASTM D 1000	15.0 lbs./in. width
Overlap bond	ASTM D 1000	8.0 lbs./in. width
Pliability	ASTM D 146	no effect @ -15 deg. F
Puncture resistance	Membrane: ASTM E 154	40 lbs.
Metabolites	Analysis: Chemical and Visual	excellent resistance
Water absorption	ASTM D 570	less than 1% weight
Resistance to decay	Saturated CaCo solution-50 cycles	No weight Loss
Hydrostatic pressure resistance	ASTM D 5385	231 Ft.

POLY WALL STRETCH		
Reference: ICC ES Report ESR-1080 Division 07 – Thermal and Moisture Protection Section 071416 – Cold Fluid Applied Waterproofing		
PROPERTY	TEST PROCEDURE	TYPICAL VALUE
Water penetration & leakage through masonry	ASTM E 514-90	No Dampness Visible and No Water collected
Water vapor transmission of materials (Permeance)	ASTM E 96 Method B	0.27 grains/sq.ft./hr./in. Hg. at 80 deg F (Perms)
Permeability	ASTM E 96 Method A	0.001 perm*inch dry mils
Waterproofing film hydrostatic pressure resistance	ASTM D 5385	Withstood 231 ft. head of water pressure. (test apparatus limit)
Low-temperature flexibility and crack bridging	ASTM C 836	No Cracking
Tensile strength	ASTM D 412	@ 7 days 190 PSI; @ 28 days 346 PSI.
Adhesion to substrate	ASTM D 4541	100 PSI
Resistance to Water	ASTM D 2939	No Blistering or Re-emulsification
Elongation	ASTM D 412	500%
Extensibility after heat aging	ASTM C 836	No Cracking or tearing of membrane
Category 1 40 C.F.R.§59.401 "Waterproofing Sealers and Treatments"		<550 g/l VOC
<i>POLY WALL Stretch meets or exceeds ICC-ES AC29 testing for waterproofing.</i>		

