



STRETCH (Residential Waterproofing Specification)

Per regulations of all states, excluding California

1. Product Name

STRETCH

Liquid Membrane Waterproofing

2. Manufacturer

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

3. Product Description

BASIC USE

Poly Wall STRETCH waterproofing is designed for use on concrete, precast concrete, and concrete masonry. Typical applications include foundation walls.

Poly Wall STRETCH is a patented cold-applied, elastomeric, thermoplastic rubber coating & mastic membrane; consisting of a thermoplastic liquid material that dries to a tough coating to provide a barrier to water passage and bridge small shrinkage cracks up to 1/16". Poly Wall STRETCH can be applied to subterranean concrete and concrete block structures to prevent the passage of water. Poly Wall STRETCH is designed for positive-side hydrostatic pressure and is not recommended for surfaces subject to negative-side hydrostatic pressure. Where superior performance is required, an exterior application coupled with an interior application of a vapor retarder, Poly Wall PRO 1000, is recommended.

COMPOSITION & MATERIALS

Poly Wall STRETCH is a patented, solvent based, liquid applied elastomeric membrane with a VOC content to meet local requirements: 525; 400; 200; or 100. Available accessory products include Poly Wall PRO 1000.

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 Specifications.

SURFACE PREPARATION

General: All rough concrete, surface defects, voids, and surface protrusions must be made smooth and filled flush. All surfaces to be coated must have a minimum pull-off strength of 175 PSI when cured and a minimum surface profile of 3 to 5%. Footings shall be scraped and brushed clean of all dirt and debris. Prior to coating, surfaces must be clean and dry; free of mortar smears and form release; and free of frost, ice or excess moisture.

Poured Concrete Walls: Once bleed water is absent, allow for typical cure time of from 12-24 hours (longer cure time with lower ambient temperatures) before coating. Ties, inside and out, must be knocked off and filled flush with either Poly Wall Hole Filler or non-shrinking Portland cement grout. Honeycombs must be filled with non-shrinking Portland cement grout and allowed to thoroughly dry.

Concrete Masonry Walls: Are to be unparged. The assembly shall have been constructed with Type S mortar in accordance with ASTM C270. Joints are to be tooled and brushed to create surface profile. Any voids in the mortar are to be grouted/filled with non-shrinking Portland cement grout, Poly Wall Hole Filler or Poly Wall Fiber Flash. Allow assembly to cure for a minimum 12 – 48 hours (longer cure time with lower ambient temperatures) before coating. Core fills, bond beams and rain add significant moisture to the assembly requiring longer lengths of time for

drying. Precast joints and control joints must be filled and prepared according to Poly Wall's requirements. Submit control joint detail design for approval prior to commencing work.

PRIMING

Priming is not required for waterproofing.

MEMBRANE APPLICATION

Poly Wall STRETCH can be applied in ambient temperatures between -20°F and 110°F. Poly Wall STRETCH should be applied in one coat at a rate of 40 square feet per gallon (40 wet mils). Coverage rates, crack bridging capability and a continuous dry mil thickness will depend upon surface texture and porosity. Due to texture and porosity, some surfaces may require higher mil application. When properly applied, Poly Wall STRETCH will dry to average continuous membrane 16 dry mils. Coating should be spray applied with an airless sprayer having a minimum 4000 PSI stall pressure and using a recommended 0.037" reversible tip.

Inspect all surfaces for complete, continuous and consistent coverage at the desired mil thickness. Re-apply material until complete coverage is accomplished.

In ambient temperatures well above freezing, next day backfilling is typical (colder temperatures require a longer dry time). Adequate drying can be determined by rubbing a hand across the surface and ensuring that the coating does not deform.

When applied on horizontal surfaces, submit detailed drawings for technical assistance. For standard foundation waterproofing applications and best appearance, the upper termination of the Poly Wall STRETCH membrane should be at grade. When protection from grade to top of foundation is required or desired, best results are



achieved by installing either AirLok Flex VP (water based elastomeric) coating from top of foundation down and overlapping the STRETCH barrier below grade at least four inches or Pro 1000 (solvent base dampproofing) coating from top of foundation wall down below grade such that STRETCH would be applied after and overlap.

PROTECTION

For foundations deeper than 9 feet protection board is required. For foundations less than 9 feet deep no protection board is necessary when using clean fill and adequate coating drying time has been allowed.

Poly Wall STRETCH will be adversely affected by prolonged or constant UV exposure. When Poly Wall STRETCH is installed above grade and exposed to UV, it is recommended to provide UV protection by covering with 40 wet mils of AirLok Flex VP from top of exposed surface to 6 inches below grade.

MEMBRANE REPAIR

Inspect membrane thoroughly prior to backfilling or covering. Repair any damaged or thin areas with additional material. Re-coated areas require adequate drying time prior to the installation of protection board or backfilling.

SAFETY

Poly Wall STRETCH liquid and vapors are flammable. When applying Poly Wall STRETCH, the work areas shall be well

ventilated and restricted to only applicators. The following safety precautions must be observed.

1. Smoking and introduction of flames, sparks, electric arcs, etc. shall not be allowed.
2. Applicators shall wear a NIOSH approved disposable organic vapor respirator.
3. A working fire extinguisher, type ABC, shall be available in all vehicles near truck doors, and in the work area.
4. All trucks, barrels and spray equipment shall be grounded.

BACKFILL

Poly Wall STRETCH should be allowed to dry 12-48 hours after the final coat before backfilling or putting the structure into service. Length of dry time will vary with ambient temperature, coating thickness, humidity and wind or air movement conditions. Check surface for dryness before backfilling. Back fill or cover from UV within 30 days.

STORAGE

Poly Wall STRETCH should be stored outside on a shaded hard surface. Indoor storage requires fire sprinkler system. AirLok Flex VP is water based and should be stored indoors and protected from freezing.

Containers of Poly Wall STRETCH should be stored out of direct sunlight and in temperatures between -10°F

and 100°F. For best results Poly Wall STRETCH should be at a temperature above 50°F prior to application. This will help to reduce the material viscosity to a level that will allow the material to be sprayed more consistently.

6. Availability & Cost

AVAILABILITY

Poly Wall STRETCH is available through a network of Distributors, Manufacturer's Representatives and Qualified Installers. Contact Polyguard Products, Inc. for information and for your nearest representative or distributor.

COST

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

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 STRETCH		
PROPERTY	TEST PROCEDURE	TYPICAL VALUE
Water penetration & leaks through masonry	ASTM E 514-90	No Dampness Visible and No Water collected
Water vapor transmission of materials Permeance (perms)	ASTM E 96 Method B	0.1 grains/sq. ft./hr./in. Hg. at 80 deg F
Permeability	ASTM E 96 Method A	0.001 perm*inch dry mils
Hydrostatic pressure resistance of waterproofing membranes	ASTM D 5385	Withstood 231 ft. head of water pressure. (limit of test apparatus)
Low-temperature flexibility & 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
Category 1 40 C.F.R.§59.401 "Waterproofing Sealers and Treatments"		525; 400; 200; or 100 g/l VOC
<i>Poly Wall STRETCH meets or exceeds ICC-ES AC29 testing for waterproofing.</i>		

