Waterproofing

(Thermoplastic Rubber Coating)

1. Product Name

Poly-Wall Stretch

2. Manufacturer

Protective Coatings
Technology, Inc.
Menomonie, WI
(800) 846-3020
www.poly-wall.com

3. Product Description

BASIC USE
Poly-Wall Stretch water proofing coating is designed for use on concrete and concrete masonry. Typical application includes foundation walls.

Poly-Wall Stretch is a cold applied, elastomeric membrane consisting of a solvent based liquid material that dries to a tough, elastomeric coating designed 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. For best results a primer coat of Poly-Wall PRO 1000 or Poly-Wall PRO 2000 is recommended, but not required.

COMPOSITION & MATERIALS
Poly-Wall Stretch is a patented liquid applied elastomeric membrane designed for waterproofing substrates including concrete and concrete masonry. Poly-Wall Stretch is solvent based with a V.O.C. content of <550 g/l. Available accessory products include Poly-Wall PRO 1000 and Poly-Wall PRO 2000.

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
A clean, smooth surface is required. Although no particular curing time is required prior to applying primer, surface must be free of frost, ice or excess surface water. Fill all surface defects, voids and exposed aggregate with high quality concrete or a Portland cement grout prior to primer application. All rough concrete, surface defects and surface protrusions must be made smooth and filled flush. All surfaces to be coated must have a minimum surface pull-off strength of 175 psi when cured. For concrete walls all interior and exterior ties need to be removed prior to application of Poly-Wall Stretch.

PRIMING
Prime surface with Poly-Wall PRO 1000 or Poly-Wall PRO 2000 and allow drying time to be at least 20 minutes prior to the application of the Poly-Wall Stretch. For best appearance and extra protection, primer coat can be applied from the top of the foundation to footings. For appearance a primer coat shall be applied from top of foundation to 18 inches below grade level. Priming is not required for waterproofing.

MEMBRANE APPLICATION
Poly-Wall Stretch should be applied in ambient temperatures between –10 and 100 degrees F. Product temperature at time of application should be 50 degrees F.
When Poly-Wall PRO 1000 or Poly-Wall PRO 2000 is used as a full wall primer coat, Poly-Wall Stretch should be applied in one coat, and should be applied at a rate of 50-70 square feet per gallon. Where a primer coat of Poly-Wall PRO 1000 or Poly-Wall PRO 2000 is not used, a coverage rate of 50-60 square feet per gallon is recommended. Coverage rates and 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 a continuous membrane 13 to 16 mils thick. Coating should be spray applied with an airless sprayer having at least a 4000 p.s.i. stall pressure and using a .035" reversible tip.
Inspect all surfaces for complete, continuous and consistent coverage at the desired mil thickness. Re-apply material until

complete coverage is accomplished.

Next day backfilling is typical. Adequate drying can be determined by rubbing a hand across the surface and ensuring that the coating does not deform.

When used on horizontal surfaces, all membrane termination points should be at least 3" above the level of any possible standing water. The finished coating must be covered or protected anywhere the membrane would otherwise be exposed to sunlight or other strong UV sources.

For standard foundation waterproofing applications and best appearance, the upper termination of the Poly-Wall Stretch membrane should be 6" below finish grade level.

PROTECTION
For foundations deeper than 9 feet protection board is required. For foundations less then 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.

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.

BACKFILL
Poly-Wall Stretch should be allowed to dry 4 – 24 hours after the final coat before backfilling or putting the structure into service. Ambient temperature, coating thickness, humidity and wind or air movement conditions will dictate exact time.

STORAGE
Poly-Wall Stretch should be stored outside on a shaded hard surface. Indoor storage requires fire sprinkler system.

6. Availability & Cost

AVAILABILITY
Poly-Wall Stretch is available through a network of Distributors, Manufacturer's Representatives and Qualified Installers. Contact Protective Coatings Technology Inc. for information and for your nearest representative or distributor.

COST
Contact Protective Coatings Technology Inc. or your nearest Representative or Distributor for pricing information.

7. Warranty

All PCT, Inc. products are warranted to be free of manufacturer's defects for a period of five (5) years. Contact Protective Coatings Technology, Inc. for further information and extended warranties.

8. Technical Services

Technical information and advice are available from Protective Coatings Technology, Inc. as well as through your nearest manufacturer's representative or Distributor.

POLY-WALL STRETCH		
PROPERTY	TEST PROCEDURE	TYPICAL VALUE
Test method for water penetration and leakage through masonry	ASTM E 514-90	No Dampness Visible and No Water collected
Test method for water vapor transmission of materials	ASTM E 96 Method B	Permeance (perms) 0.1 grains/sq.ft./hr./in. Hg. at 80 deg F
Permeability	ASTM E 96	0.001 perm*inch dry mils
Test method for hydrostatic pressure resistance of waterproofing membranes	ASTM D 5385	Withstood 231 ft. head of water pressure. (limit of test apparatus)
Test method for low-temperature flexibility and crack bridging	ASTM C 836	No Cracking
Method for tensile strength	ASTM D 412	@ 7 days 190 PSI; @ 28 days 346 PSI.
Method adhesion to substrate	ASTM D 4541	386 PSI average
Category 1 40 C.F.R.§59.401 "Waterproofing Sealers and Treatments"		<550 g/l VOC

Moisture & air stop here.™ POLY WALL