



# Damp Proofing

## 1. Product Name

Poly-Wall PRO 1000

## 2. Manufacturer

Protective Coatings  
Technology, Inc.  
Menomonie, WI 54751  
(800) 846-3020  
www.poly-wall.com

## 3. Product Description

### BASIC USE

Poly-Wall PRO 1000 is designed for use on concrete and concrete masonry surfaces to prevent the penetration of water as well as protect the surface from other chemical intrusion. Typical application includes coating exterior foundation walls. For superior moisture control, coating of the interior and exterior foundation walls is recommended. The durability as well as water and chemical resistance of Poly-Wall PRO 1000 suggests other uses.

Poly-Wall PRO 1000 is an attractive gray color with glossy finish and can be used on both unexposed and exposed portions of foundations. Coating foundation walls all of the way to the top provides a unique ability to protect against moisture from rain water and melting snow as well as typical below grade moisture.

### COMPOSITION & MATERIALS

Poly-Wall PRO 1000 is a patented, cold applied, thermoplastic coating designed to damp proof and protect concrete and concrete masonry surfaces.

It is a single component liquid applied thermoplastic. Poly-Wall PRO 1000 is non-breathable and non-elastomeric. Poly-Wall PRO 1000 is solvent based with a VOC content of <600g/l.

## 4. Technical Data

See Table

## 5. Installation

### GENERAL

Read and carefully follow the instructions contained in this spec sheet as well as in the most current Manufacturer's Guide Specifications.

### SURFACE PREPARATION

A clean, smooth surface is required. New concrete should be allowed to set until all of the free water is evaporated off of the surface. Surface should be free of frost, ice and excess water. Concrete surfaces should have a minimum surface pull off strength of 175 psi. Existing concrete surfaces must be thoroughly cleaned and de-greased prior to application. All previous coatings must be removed.

Concrete and concrete masonry units should be dry, free of surface voids, honeycombed concrete, cracks, mortar smears, dirt and form release agents that will interfere with adhesion. Footing should be scraped and cleared of mortar droppings and other dirt and debris. Surface defects such as cracks, holes or cavities should be filled and finished flush with a Portland cement grout or concrete. Voids in surfaces are to be filled to create a smooth, slightly porous surface. Clean all surfaces to remove dirt, mud, debris,

dust, laitance, etc. For concrete walls all interior and exterior ties need to be removed prior to application of Poly-Wall PRO 1000.

### PRIMING

No primer is recommended. For best results PRO 1000 should be applied directly to sound concrete surfaces.

### MEMBRANE APPLICATION

Poly-Wall PRO 1000 should be applied in one coat. The total dry mil thickness should be 10 - 20 mils. Wet application shall be 35 - 55 square feet per gallon. The application rate is inversely related to the porosity of the wall service. Use of an airless sprayer with a 4000 p.s.i. stall pressure and a .035" reversible tip is recommended.

The coating should be sprayed and back-rolled to achieve a continuous coating at the desired mil thickness. Rolling should be accomplished with a new 3/8-3/4 inch nap roller.

Inspect all surfaces for complete, continuous and consistent coverage. Re-apply material until complete coverage is accomplished.

### PROTECTION

For protection 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 PRO 1000 will be adversely affected by prolonged or constant UV exposure. Re-coating may be necessary for coating applied to UV exposed surfaces every 5 years.

**SAFETY**

Poly-Wall PRO 1000 liquid and vapors are flammable. When applying Poly-Wall PRO 1000, the work areas shall be well ventilated and restricted to only applicators. The following safety precautions must be observed.

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

**MEMBRANE REPAIR**

Repair of Poly-Wall PRO 1000 is simply a matter of thoroughly cleaning and drying the damaged

area and re-coating. Poly-Wall PRO 1000 will bond to itself without any elaborate surface preparation.

**BACKFILL:**

Poly-Wall PRO 1000 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 PRO 1000 is to be carefully stored according to the requirements of local authorities. Protect containers of product from water, sparks, flames, excessive heat and poor ventilation.

Containers of Poly-Wall PRO 1000 should be stored out of direct sunlight and in temperatures between -10 and 100 degrees F. For best results Poly-Wall PRO 1000 should be at a temperature above 50 degrees 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 PRO 1000 is available through a network of Distributors, Manufacturer's Representatives and Installers. Contact Protective Coatings Technology, Inc. for information and the 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 5 year. 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 PRO 1000		
PROPERTY	TEST PROCEDURE	TYPICAL VALUE
ADHESION	ASTM C 836-89a	Exceeds
PERMEANCE	ASTM E 96 method B	0.700 grains/sq.ft./hr./in. Hg. at 80 deg F
PERMEABILITY	ASTM E 96, method B	.0045 perms*inch/dry mils
RESISTANCE TO HYDROSTATIC HEAD		100 ft. of water
WATER ABSORPTION	ASTM D 95	Less than 1% weight
METABOLITES	GSA-PBS 07115	Unaffected
RESISTANCE TO DEGRADATION	ASTM E 154	Excellent
CATEGORY 1 40 C.F.R.§59401 "WATERPROOFING SEALERS AND TREATMENTS"		<600G/L VOC

