1. Product Name

Poly-Wall Pro 4000 Coating

2. Manufacturer

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

3. Product Description

BASIC USE
Poly-Wall Pro 4000 coating 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 concrete tanks for the storage and/or treatment of potable water. The durability as well as water and chemical resistance of Poly-Wall Pro 4000 suggests other uses. Poly-Wall Pro 4000 is gray in color. Poly-Wall Pro 4000 meets NSF 61 when applied according to manufacturer's instructions.

COMPOSITION & MATERIALS
Poly-Wall Pro 4000 is a patented, cold applied, thermoplastic coating designed to waterproof and protect concrete and concrete masonry surfaces. It is a single component liquid applied thermoplastic. Poly-Wall Pro 4000 is non-breathable and non-elastomeric. Poly-Wall Pro 4000 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 on this spec sheet as well as in the most current Manufacturer's Guide Specifications.

SURFACE PREPARATION
A clean, dry, 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 water, frost or ice. No particular curing time is required before applying Poly-Wall Pro 4000, however, usually waiting 72 to 96 hours is adequate to ensure the surface pores are free of moveable 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. 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.

PRIMING
No primer is recommended. For best results Poly-Wall Pro 4000 should be applied directly to sound concrete surfaces.

MEMBRANE APPLICATION
Poly-Wall Pro 4000 should be applied in three coats. Allow 12-24 hours drying time between coats. Ambient temperature, humidity and wind or air movement conditions dictate exact time. Each coat should be applied at a rate of 85-90 square feet per gallon for a combined 30 wet mils for all three coats. The total Dry mil thickness of all three coats should be about 16 to 18 mils. Poly-Wall Pro 4000 Coating shall be rolled with ½ inch to ¾ inch nap roller to smooth and even coating. Allow Coat to dry for 12 hours in warm weather and 24 hours in cold weather. After dry time, apply next coat to a smooth, even thickness.

For best results and to minimize pin holing or blistering on outdoor applications, apply during times of cool and descending temperatures just before sunset. Inspect all surfaces for complete, continuous and consistent coverage. Re-apply material until complete coverage is accomplished.

PROTECTION

Poly-Wall Pro 4000 will be adversely affected by prolonged or constant UV exposure. Re-coating

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may be necessary for coating applied to UV exposed surfaces every 3-5 years.

SAFETY
Poly-Wall Pro 4000 liquid and vapors are flammable. When applying Poly-Wall Pro 4000, 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 4000 coating is simply a matter of thoroughly cleaning and drying the damaged area and re-coating. Poly-Wall Pro 4000 will bond to itself without any elaborate surface preparation.

FINAL DRYING TIME:
Poly-Wall Pro 4000 should be allowed to dry 72 hours after the final coat before putting the structure into service. Ambient temperature, humidity and wind or air movement conditions will dictate exact time.

STORAGE
Poly-Wall Pro 4000 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 4000 should be stored out of direct sunlight and in temperatures between –10 and 100 degrees F. For best results Poly-Wall Pro 4000 should be stored in temperatures above 50 degrees F. immediately prior to application. This will help to reduce the material viscosity.

6. Availability & Cost

AVAILABILITY
Poly-Wall Pro 4000 Coatings are available through a network of Distributors, Manufacturer's Representatives and Qualified 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 2 year. Contact Protective Coatings Technology, Inc. for further information.

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 4000		
PROPERTY	TEST PROCEDURE	TYPICAL VALUE
ADHESION	ASTM C 836-89a	Exceeds
PERMEANCE	ASTM E 96, Method B	0.5 grains/sq.ft./hr./in. Hg. at 80 deg F.
PERMEABILITY	ASTM E 96, Method B	.010 perm*inch dry mils
RESISTANCE TO HYDROSTATIC HEAD		231 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.§59.401 "WATERPROOFING SEALERS AND TREATMENTS"		<600 G/L VOC

Moisture & air stop here.™ POLY WALL