

PRO 1000

Fluid-Applied Membrane Dampproofing

Product Data Sheet

PRODUCT NAME PRO 1000

MANUFACTURER
Polyguard Products, Inc.
Ennis, TX 75119
(214) 515-5000
www.polyguard.com

PRODUCT DESCRIPTION BASIC USES

PRO 1000 is a patented, single-component, cold-applied, non-elastomeric, non-breathable, thermoplastic membrane. It dries to a UV-resistant and tough, re-coatable, hard coat, protective film that stops water passage through a substrate. This feature allows for durable and maintainable protection from rain and melting snow in the area between grade and the exterior finish. It is designed for use in positive-side hydrostatic pressure applications. It can also be used as a vapor impermeable coating on the inside of a below-grade wall when the outside of the wall has either been water- or damp-proofed with this or other Polyguard material.

PRO 1000 is designed for application over poured concrete, precast concrete and concrete masonry below-grade walls.

COMPOSITION & MATERIALS

PRO 1000 is solvent based with a VOC content of <600g/l; and a hard, glossy finish that can be recoated.

Available accessory products include: Detail Sealant PW™ and sheet-molded drain materials.

TECHNICAL DATA

See physical properties table.

INSTALLATION

SURFACE PREPARATION

Poured concrete Walls:

Fill honeycombs with non-shrinking Portland cement grout. Remove form ties from both sides of the wall. On the side of the wall that will be coated, fill tie depression irregularities flush using Detail Sealant PW or non-shrinking Portland cement grout.

Concrete Masonry Units (CMU):

Do not use PRO 1000 over CMU units containing integral moisture repellants without prior compatibility testing. Tool and brush mortar joints. Fill surface voids in CMU with non-shrinking Portland cement grout, or Detail Sealant PW. Submit control joint waterproofing design to Polyguard Products, Inc. for approval prior to commencing work.

PRIMING

No primer necessary.

MEMBRANE APPLICATION

Apply PRO 1000 in ambient temperatures between -20°F (29°C) and 120°F (49°C). For optimum results, bring the material temperature to a minimum 50°F (10°C) prior to application, as lower temperatures decrease material flow properties.

Apply PRO 1000 over poured concrete walls and footings and CMU walls which have cured a minimum of 3 days, have a minimum 175 PSI pull-off strength per ASTM D4541, are dry to touch, and are clean and frost free. In conditions where a wall has been underwater, do not proceed until the area has been drained and the concrete has dried to the touch.

Apply PRO 1000 in one or more coats over poured concrete at a combined rate of 40 ft² per gallon (40 wet mils). Coverage rates over CMU's are dependent on the tightness of the surface profile.

Membrane blistering can be avoided by applying PRO 1000 during a wall exposure in its daily cooling cycle. Execute applications on walls experiencing daily warming due to direct sunlight in 20 mil applications, allowing each coat to dry before applying the next coat. Applications can be made by brush, roller, or airless sprayer having a minimum stall pressure of 4000 PSI and using a 0.036- to 0.039-inch reversible tip.

INSPECTION

Inspect coated surfaces for complete and continuous coverage at the desired mil thickness. Correct deficiencies by applying additional material.

MEMBRANE REPAIR

Repair damage prior to installation of sheet-molded drain by cleaning the damage and applying additional material to specification.

PROTECTION

Protect above-grade areas of PRO 1000 from UV exposure by recoating exposed above-grade areas every 5-7 years. For a successful painting overcoat, use a bonding additive equal to the properties of Wil-Bond Liquid Surface Preparation.

Protect below-grade areas of PRO 1000 using Polyflow® 15 or 15P sheet molded-drain. Drain these products to daylight or operational sump. Securely adhere one of the listed products over the face of PRO 1000 which has dried a minimum of 3 days. Adhere protection using a low-rise spray adhesive.

Protect and drain PRO 1000 over an area from a minimum of 4-inches below the top of interior slab to 6-inches below the top of grade.

BACKFILL

After passing inspection of the completed drainage/protection system, backfill using clean fill material. Place backfill materials to within 2 feet of finish grade. Backfill the remaining area with native soils. Shape the grade to drain away from the structure.

LIMITATIONS:

This product is not intended to be shipped or used in the States of California, Connecticut, Delaware, Maryland, or Rhode Island. The use of these products must be according to Federal, State and local governing regulations. To be used in exterior applications only. Cannot be applied to any polystyrene or foam-based products. Once the solvent has flashed out of the coating then polystyrene or foam-based products can be installed onto the cured membrane. Not to be used as a liner in potable water conditions.

WARNING:

Flammable Liquid and vapor. DO NOT SMOKE while mixing or applying product. Ensure there are no open flames and/or spark generating sources on project while mixing or applying the product.

PRECAUTIONS:

Install in a well-ventilated open area. Take safety precautions and wear appropriate safety gear for the application of solvent-based coatings (i.e. gloves, eye protection, respirator, ventilation, etc.) according to Federal, State and local governing regulations. Harmful if inhaled. Can cause eye and skin irritation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor, or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment and non-sparking tools. All trucks, barrels and spray equipment shall be properly grounded and bonded. A working fire extinguisher, type ABC, shall be available onsite in both the mixing and work areas. Prior to use and mixing, review the Safety Data Sheet for proper protective equipment and additional health, environmental and safety precautions.

STORAGE:

This product is a solvent-based product and special care must be taken during storage, handling and use. Protect containers from water, sparks, flames, excessive heat, and poor ventilation. Store/keep product out of direct sunlight and in ambient temperatures between 10° F (23° C) and 100° F (38° C). For best application results, store in ambient temperatures above 50° F (11° C). Store in original container, lid securely closed, and with all markings & labeling in tact. Follow all Federal, State and local governing regulations.

SAFETY

SDS sheets for all Polyguard products can be obtained at our website www.polyguard.com. Call Polyguard Products, Inc. at 214.515.5000 with questions.

WARRANTY

We, the manufacturer, warrant only that this product is free of defects, since many factors which affect the results obtained from this product are beyond our control; such as weather, workmanship, equipment utilized and prior condition of the substrate. We will replace at no charge product proved to be defective within twelve (12) months of purchase, provided it has been applied in accordance with our written directions for uses we recommended as suitable for this product. Proof of purchase must be provided. A five (5) year material or system warranty may be available upon request. Contact Polyguard Products, Inc. for further details.

TECHNICAL SERVICES

Technical assistance, information and Polyguard's products are available through a nationwide network of distributors and architectural representatives, or contact Polyguard Products, Inc.
 P.O. Box 755, Ennis, TX 75120-0755
 Sales: (615) 217-6061 • Tech Support: (214) 515-5000
 Email: archtech@polyguard.com
 Website: www.polyguard.com

PROPERTY	TEST METHOD	TYPICAL VALUE
COLOR		Gray
LOW TEMPERATURE FLEXIBILITY	ASTM C 836	Pass
PULL ADHESION	ASTM D 4541	100+ PSI
PERMEANCE	ASTM E 96 Method B	0.45 Perms
RESISTANCE TO HYDROSTATIC HEAD	ASTM D 5385	100+ ft.
WATER ABSORPTION	ASTM D 95	< 1% weight
WATER PENETRATION and LEAKAGE THROUGH MASONRY	ASTM E 154	No Penetration or Leakage
CATEGORY 1 40 C.F.R.§59401 "WATERPROOFING SEALERS AND TREATMENTS"		<600 g/l

PACKAGING	PART NUMBER	UNIT SIZE
PRO 1000	PRO1000 GRAY 55	55-gallon drum
PRO 1000 Accessories:		
DETAIL SEALANT PW™	DETAIL SEALANT PW – SAU 20 OZ	20 sausages/ctn
DETAIL SEALANT PW™	DETAIL SEALANT PW – 3 GAL	3-gallon pail
POLYFLOW® 15	POLYFLOW15	4' x 50' roll
POLYFLOW® 15P	POLYFLOW15P	4' x 50' roll
TOTALFLOW™	TOTAL FLOW	24" x 50' roll
TOTALFLOW™ END OUTLET (4")	OUTLET4-UNIV	N/A
TOTALFLOW™ TEE OUTLET (4")	TEE4-UNIV	N/A

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