

POLYGUARD PG-5000

DESCRIPTION:

POLYGUARD PG-5000 is a black, liquid applied single-component moisture-cured polyurethane coating designed to be applied as a seamless flexible rubber membrane to resist moisture. The product is available in both a vertical and horizontal viscosities to allow for vertical and horizontal applications.

BASIC USES:

POLYGUARD PG-5000 is used to waterproof structures in split slab configurations such as parking decks, plaza or mall areas over occupied space, courtyards, planters and other below grade exterior foundation walls that will be backfilled. The product is also used under elevated pool decks and beneath tile floors.

POLYGUARD PG-5000 is available in black color only and is available in 5 gallon pails and 55 gallon drums. **PG-5000 V** is designed for vertical applications while the **PG-5000 H** is designed for horizontal applications.

INSTALLATION:

POLYGUARD PG-5000 can be applied directly from the container with airless spray equipment. For jobsite conditions that are not conducive to spray application **PG-5000** may be roller applied or applied by brush or squeegee. All surface cracks and defects over 1 / 16" wide must be filled first with **POLYGUARD DETAIL SEALANT**. The **DETAIL SEALANT** is applied by caulking gun and/or trowel. Since these two products are compatible there is no waiting time required to cover the **DETAIL SEALANT** with **PG-5000**.

Application rates over concrete for the **POLYGUARD PG-5000** may vary but a 60 mil dry thickness is recommended. Apply at a rate of 20 square feet per gallon. If a two-coat application is preferred, apply at a rate of 40 square feet per coat with a 24 hour cure time between coats. Extremely rough or porous surfaces should be filled by receiving a detail coating of **PG-5000** to level the surface. The membrane application should be made as uniformly as possible to avoid air bubbles and pinholes. These deficiencies should be repaired if they occur. If two-coat coverage is required, two 40 mil thick coats should be installed allowing a 24 hr. cure time between the coats. Protection course and/or drainage composites must be placed over the cured membrane prior to backfilling operations or prior to additional concrete topping slab installations.

BENEFITS:

- Cold applied directly from the container.
- Extra accessory tapes, adhesives and field splicing are not needed.
- Superior elongation and flexibility properties allow for a wide range of applications.
- Does not contain coal tar additives.
- May be installed by spray equipment, roller, squeegee or trowel without heating material.
- Multiple substrate compatibility – concrete, lightweight structural concrete, masonry, CMU, metal and other surfaces.

LIMITATIONS:

- **POLYGUARD PG-5000** containers that have been opened must be used within one to two days since this is a moisture reactive product.
- Curing begins when the product is exposed to air.
- Priming may be required for best adhesion on some surfaces.
- Substrates must be free from all foreign substances and be dry upon application.

PACKAGING:

POLYGUARD PG-5000 H and **PG-5000 V** are packaged in 5 gallon pails and 55 gallon drums.

PRECAUTIONS:

Accessory items that may be used in proximity with this product may include **POLYGUARD 650 LT LIQUID ADHESIVE**, **CALIFORNIA SEALANT**, **SHUR-TAC**, **POLYGUARD PG-250**, **POLYGUARD DETAIL SEALANT**, **650 MEMBRANE**, **300 and 400 MEMBRANE**, **POLYGUARD 328 THRU WALL FLASHING**, plus other **NON-POLYGUARD** chemicals like Xylene that will be used to clean details before this product is installed. The **LIQUID ADHESIVES** used with this product are industrial coatings and would be harmful or fatal if swallowed. It is marked as red label from the stand-point of flash point. Prohibit flames, sparks, welding and smoking during application.

Polyguard

This Information is based on our best knowledge, but
POLYGUARD cannot guarantee the results to be obtained.

POLYGUARD PRODUCTS, INC • ENNIS, TEXAS 75120-0755
PH: 214-515-5000 • 800-541-4994 • FAX: 972-875-9425
Web Site: www.polyguardproducts.com



Refer to product label and Material Safety Data Sheets for handling, use and storage. Solvents could be irritating to the eyes. In case of contact with eyes, flush with water and contact physician.

Avoid prolonged contact with skin and breathing of vapor or spray mist from liquid adhesive. *If in confined areas, use adequate forced ventilation, fresh air masks, explosion proof equipment, and clean clothing. Avoid solvent contact with light bulbs or other high temperature surfaces. **Close container after each use. Keep out of reach of children.***

This material is offered for sale by **POLYGUARD PRODUCTS, INC**, only for the expressed purposes as described in this literature. Any use of the products described in this literature for purposes other than taught therein by **POLYGUARD PRODUCTS, INC**, shall be the responsibility of the purchaser and **POLYGUARD PRODUCT, INC**, does not warrant nor will be responsible for any misuse of these products. **POLYGUARD PRODUCTS, INC**, will replace F.O.B. Ennis, Texas, material not meeting our manufacturer's specifications one year from date of sale. **POLYGUARD** products as described herein are for industrial use only. The application procedures should be performed by workmen who are skilled in the application of materials described herein in accordance with manufacturer specifications.

MATERIAL SAFETY DATA SHEETS:

All Material Safety Data Sheets and precautionary labels should be read and understood by all user supervisory personnel and employees before using. Consult **POLYGUARD PRODUCTS, INC**. Material Safety Data Sheets and OSHA regulations for additional safety and health information for the products described herein. Purchaser is responsible for complying with all applicable federal, state or local laws and regulations covering use of the product including waste disposal.

This is not a Material Safety Data Sheet and is not to be used as such. **POLYGUARD** has prepared separate Material Safety Data Sheets on each product.

WARRANTY:

POLYGUARD products are warranted to be free of defects in manufacture for five years. Material will be provided at no charge to replace any defective product.

TECHNICAL SERVICE AND AVAILABILITY:

Technical assistance, information and **POLYGUARD** products are available through a nationwide network of distributors and architectural representatives or contact **POLYGUARD PRODUCTS, INC**.

TECHNICAL DATA: POLYGUARD PG-5000			
PHYSICAL PROPERTIES	TEST METHOD	RESULTS	
		HORIZONTAL GRADE	VERTICAL GRADE
Viscosity	Brookfield Viscometer	40 +- 5	35 +- 5
Weight per Gallon		10.10 +- 0.2	9.1 +- 0.2
Percent Solids Weight	ASTM D 2369-98	86 +- 2	82 +- 2
Tack Free Time @ 77° F (25° C) 55% RH		12-16 hrs.	12-16 hrs.
Recoat Time @ 77° (25° C) 55% RH		16-24 hrs.	16-24 hrs.
Hardness (Shore A)	ASTM D-2240-97	40 +-5	35 +-5
Tensile Strength (psi)	ASTM D-412-98	300 +- 10%	436
Percent Elongation	ASTM D-412-98	700 +- 10%	700 +- 10%
Water Vapor Transmission (grains/hr./SF)	ASTM E-96-00 Procedure B Water Method	0.72	0.72
Adhesion to Concrete	ASTM D-903-98	14.9 lb./in. no peel/film break	19.0 lb./in. no peel/film break
Hydrostatic Pressure Resistance	ASTM D-751-00	94 psi	94 psi
Resistance to Decay	ASTM D-154	No surface defects	No surface defects
Moisture Vapor Transmission (grains/hr./SF) after decay testing			1.563
Flash Point		120° F (49° C)	150° F (66° C)
Recovery (percent)	ASTM D-412-98	98%	96%
Shelf Life – (when stored indoors in cool and dry location @ 77° F (25° C) in unopened containers)		12 months	12 months