

# POLYGUARD PG-250

## DESCRIPTION:

**POLYGUARD PG-250** is a single component, high solids, rapid curing, VOC compliant, modified polyurethane waterproofing membrane designed to be applied to both vertical and horizontal concrete surfaces. **POLYGUARD PG-250** is a black polyurethane coating that is designed to be flexible and impervious to moisture. It is available in three viscosities for vertical, horizontal (*self-leveling*) and trowel applications. **POLYGUARD PG-250** is typically spray, roller, squeegee or trowel applied to specified thicknesses from 30 to 215 mils with and without additional reinforcement. In special circumstances damp or green concrete may be covered and waterproofed with the addition of a surface preparing primer.

## BASIC USE:

**POLYGUARD PG-250** is a cold liquid that is applied to concrete to provide an elastomeric waterproofing membrane to protect occupied space from the effects of water. It is commonly used between slabs on plaza decks, parking decks, roof terraces and elevated pool decks. Additional uses may include planter boxes, tunnels and foundation walls. Adhesion and effective waterproofing performance is achieved on concrete, lightweight structural concrete, wood, metal and masonry. In some cases a primer may be required.

## INSTALLATION:

### SURFACE CONDITIONS

All surfaces to receive the **POLYGUARD PG-250** must be clean and surface dry. Concrete surfaces should have a light steel trowel finish followed by a fine hair broomed finish and should be water cured. The architect or engineer should make the determination of sufficient water cure time before foot traffic on the substrate is allowed. The deck and/or walls should be allowed to surface dry after curing or form removal.

Following good waterproofing practice all decks should be slope a minimum of 1/8 inch per running foot. Shrinkage cracks in the concrete should be treated with a preliminary detail coating of **POLYGUARD PG-250** applied at 60 mils in a stripe that is 6 inches wide centered over the crack. Larger cracks or moving cracks (*greater than 1 / 16 inch in width*) should be routed out and caulked with **POLYGUARD DETAIL SEALANT** then covered with bond breaker tape and coated with a detail coat of **POLYGUARD PG-250** centered over the crack area. Additional reinforcement fabric may be required if these areas are large or extensive. Consult **POLYGUARD** for additional information.

## DETAILING:

All horizontal to vertical transitions and all penetrations and projections must receive a one inch fillet or cant with **POLYGUARD DETAIL SEALANT**. Flashings should extend to the height indicated on the detail drawings and may vary. Expansion joints and other potential high movement areas may require additional fabric reinforcement. Consult **POLYGUARD** for specific detail instructions for these conditions.

Detail installations may be done first and should be allowed to cure for at least 12 hours prior to liquid membrane application. Detailing areas should receive a wiping with Xylene prior to receiving liquid membrane application to ensure adequate bonding.

**POLYGUARD PG-250** may be applied by spray, roller, squeegee or trowel. Application rates will vary but for 60 mils thickness apply at a rate of 4 gallons per 100 SF. 90 mil applications will require an application rate of 2.78 gallons per 100 SF coat and should be applied with two coats of 45 mils per coat with 24 hours between coats. For 120 mils apply at a rate of 4 gallons per 100 SF per coat to provide a thickness of 60 mils per coat. After a 24 hour cure time apply a second coat of 60 mils. A flood test should be performed after a full cure to a firm rubber set (*48 hours minimum*). A flood test should only be performed by installing one inch of water for 24 hours. Consult the structural engineer for approval that the structure will accept the load of the flood test prior to conducting the test.

## BENEFITS:

- Provides a tough elastomeric waterproof coating for both above and below grade applications
- Single component ease of application
- Excellent crack bridging properties over a wide temperature range
- VOC compliant in most areas.
- Quick cure allows for thick applications
- May be applied to green concrete within 24 hours of form removal.

# 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](http://www.polyguardproducts.com)



## LIMITATIONS:

- Do not apply to contaminated surfaces.
- Not to be used as an exposed permanent wearing surface.
- Form releases must be removed before this product can be applied.
- Curing compounds can not be used.
- Must always be used with adequate ventilation.
- Concrete forms must be removed for a minimum of 24 hours before **POLYGUARD PG-250** can be applied.

## PACKAGING:

**POLYGUARD PG-250** is black in color and is available in 5 gallon pails and 55 gallon drums.

## PRECAUTIONS:

Accessory items that may be used with this product include **POLYGUARD 650 LT, CALIFORNIA SEALANT, and DETAIL SEALANT** 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. 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: <b>POLYGUARD PG-250</b>		
PHYSICAL PROPERTIES	TEST METHOD ASTM C 836	TYPICAL RESULTS
Material	Shall cure and maintain seal against water	Exceeds
Stability (80° F / 26.7° C)	Shelf life 6 months	Exceeds
Low Temperature	Ten cycles - 15° F / - 26° C	Exceeds
Flexibility and Crack Bridging (0" to 1/3". 1/3" to 0" = 1 cycle)	No loss of adhesion	Exceeds
Adhesion to Peel after water immersion ( <i>unprimed</i> )	1 lbf./in.	Exceeds
Extensibility After Heat Aging	Membrane must bridge ¼" crack	Exceeds

COVERAGE RATES	
WET MIL THICKNESS	SF / GALLON
215	7.5
120	13
90	18
60	25
30	53