



## **RECOMMENDED SYSTEMS**

### **Vertical Structure**

Apply PG-824 @ 4.0 to 5.0 mils WFT- Depending on porosity or profile of structure a second coat may be required.

### **Anti-Graffiti System**

Apply one coat of pigmented PG-824 followed by one coat of PG-824 Clear. Alt. System - two coats of Clear.

## **SURFACE PREPARATION**

### **Steel**

Remove all loose rust, dirt, grease or other contaminants per SSPC-SP1, SSPC-SP2, SSPC-SP3 (e.g. low or high pressure water cleaner).

### **Aluminum**

Remove all oil, grease or soap film with a PG-Surface Cleaner.

### **Galvanized Metals**

Remove all oil, grease or soap film with PG-Surface Cleaner.

### **Concrete, Masonry & Concrete Block**

Clean masonry substrates with PG-Surface Cleaner to remove any laitance using low or high pressure washer, grinding or shot blasting. For high build systems, use PG-100E Primer for first coat (Note: Due to the vast differences in concrete substrates consult a PolyGreen System representative for the proper coating system specifications).

### **Wood**

Sand new wood to remove any surface contaminant and to lower grain. Previously finished wood should be sanded to provide good adhesion. Test patches are recommended.

### **Previously Painted Surfaces**

Properly clean the surface of all dust, dirt, grease and foreign matter. Apply a test patch to ensure adhesion to the previous coating and also to ensure there will not be any delamination of the previous coating from the substrate.

**Note:** In order to ensure optimum performance, remove the previous coating to bare substrate by use of grinding or shot blasting.

### **Anti-Graffiti System**

Follow appropriate surface preparation noted above. Use two coats of PG-824.

## **APPLICATION**

### **Application Conditions**

Temperature of the air, substrate and material is recommended to be between 50 °F and 95 °F and at least 5 °above the dew point and relative humidity not above 80%.

### **Roller**

For vertical surfaces use a 1/4" woven nap, Phenolic core and for horizontal surfaces use a 3/8" woven nap, Phenolic core roller.

### **Mixing Instructions**

Stir each component thoroughly then mix the premeasured Part A with the Part B. Mix thoroughly, ensuring Parts A & B are blended together. Then allow the combined Parts A & B to "sweat in" for 2 minutes. You must reduce the mixed Part A & B components with clean tap water, at a recommended level of 5% to 20%. Reducer water should be added while agitating the product. The volume of Part A will vary. In some cases total volume after combining Part A & B, plus water reduction volume may exceed a gallon. Recommend separate containers larger than one gallon for mixing. Once the clean tap water is mixed into the combined Parts A & B you may start to apply the coating. No further sweat in time is required.

**Pot Life:** 1.5 hours at 75 °F, 50% R.H.

**Reducer:** Clean tap water

**Clean Up:** MEK, Xylene

When using 5 gallon pails after catalyzing and appropriate thinning the product must be distributed into 3 separate rolling tubs to maintain the 1.5 hour pot life. Keeping the product in the 5 gallon pail reduces the pot life to 20 minutes.

### **PRODUCT MUST BE THINNED FOR PROPER CURING AND FILM BUILD.**

For smooth vertical surfaces, thin 15% with clean tap water. For rough vertical

surfaces, thin 10% to 15% with clean tap water. For horizontal surfaces, thin 20% to 25% with clean tap water.

## **CAUTION**

Follow the MSDS for personal protective equipment to use when handling the product. Use only as directed.

## **KEEP OUT OF REACH OF CHILDREN.**

**For technical assistance call 800-442-5535**

[www.polygreensystems.com](http://www.polygreensystems.com)

## **LIMITED WARRANTY**

*The manufacturer guarantees its products to be free of defects and the extent of its liability is limited to the purchase price of the materials only, if proved to be defective. Improper mixing, incorrect application or other factors beyond the control of the manufacturer or its dealers may produce unsatisfactory results and cannot be held to be the manufacturers or its dealers responsibility. There are no other guarantees either expressed or implied.*

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# FEATURES & BENEFITS

## PG-824 URETHANE

- **MEETS U.S. BUILDING COUNCIL'S LEED CRITERIA FOR LOW EMITTING PAINTS & COATINGS**
- **MEETS CALIFORNIA GREEN BUILDING STANDARDS CODE OF REGULATION TITLE 24, PART**
- **EXCEPTIONAL BONDING CAPABILITY**  
No primers needed as it adheres to most previously painted surfaces, ferrous and non-ferrous metals without destructive surface preparation. Types of surfaces include concrete, (attained concrete), carbon steel, aluminum, galvanized metal, stainless steel, fiberglass, wood, clay/masonry surfaces, stone floors, hardwood floors, terrazzo surfaces, ceramic floor, VCT, and wall surfaces with the addition of adhesion plus.
- **PERMEABILITY OF 2.43 PERMS**  
Water barrier not vapor barrier. Allow water vapors to migrate through the coating into the atmosphere providing the substrate is not susceptible to water pooling.
- **ULTRAVIOLET INSENSITIVITY**  
No clear coat needed for better UV protection.
- **LESS THAN 30 GRAMS/L VOC**
- **BRUSH, ROLL OR SPRAY**
- **ODORLESS**  
Does not require special breathing apparatus and is isocyanates free after parts A & B are mixed.
- **PRODUCED IN TOTAL WATER**
- **THERMAL STABILITY**  
High coefficient of linear expansion.
- **NO PROPOSITION 65 CHEMICALS**
- **FOR INDOOR USE WHILE BUILDING IS IN OPERATION**
- **UV STABLE MAKING IT AN IDEAL EXTERIOR COATING**
- **REGISTERED BY NSF INTERNATIONAL (REG.# 132618, R2)**  
Suitable for the use of incidental food contact.
- **FLAME RETARDANT (ASTM); 15-CLASS 1**
- **SMOKE DEVELOPED (ASTM 98); 5-CLASS 1**
- **CAN BE USED ON VERTICAL OR HORIZONTAL SURFACES**
- **PROVIDES ANTI-GRAFFITI SYSTEM**
- **REPAIRABLE**



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# PG-824 URETHANE INDEPENDENT CHEMICAL RESISTANCE TESTING (SPOTS) BY ASTM TEST D1308

TEST DESCRIPTION	TEST RESULTS
WATER	PASSED
WATER WITH DETERGENT	PASSED
10% HYDROCHLORIC ACID	PASSED
36% HYDROCHLORIC ACID	FAILED (Extreme test/severe chemical/not an issue)
TOLUENE	PASSED
GASOLINE	PASSED
MEK	PASSED
10% SULFURIC ACID	PASSED
ACETONE	PASSED
ISOPROPYL ALCHOL	PASSED
XYLOL	PASSED
50% SODIUM HYDROXIDE	PASSED
20% SODIUM CHLORIDE	PASSED
37% SULFURIC ACID (BATTERY)	PASSED
BRAKE FLUID	FAILED (Extreme test/severe chemical/not an issue)
HYDRAULIC FLUID	PASSED
SKYDROL JP-4	PASSED
BLEACH	PASSED
BETADYNE	PASSED
KETCHUP	PASSED
MUSTARD	PASSED
ORANGE JUICE	PASSED

Note: PG-824 Urethane was tested for Chemical Resistance using 20 strong chemicals/mixtures placed under a "watch glass" cover for 24 hours. This is extreme and far more severe than typical customer field conditions. Because of this we are not



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