

PG-100E WALL & CEILING

A CHEMICAL RESISTANT, 100% SOLIDS, SOLVENT-FREE, HIGH-BUILD, TWO PART EPOXY COATING APPLIED TO WALLS & CEILINGS

PG-100E WALL & CEILING is a pigmented, 100% solids, solvent free, high-build, high-gloss, two-part epoxy coating. It is available in a variety of colors and custom colors are available upon request. PG-100E Wall & Ceiling is formulated for use in pharmaceuticals, healthcare facilities, cosmetic and clean room environments such as Class 10 to Class 1000 performance areas. It is ideal for most commercial and institutional environments where a durable, seamless, easily cleanable coating is desired.

TYPICAL USES

- Laboratories.
- Kitchens.
- Food preparation areas.
- Locker and shower rooms.
- Restrooms.
- Pharmaceutical plants.
- Clean rooms.
- Hospitals.
- Kennels.
- Bottling plants.

BENEFITS

- Stain resistant.
- Easy to clean.
- Good color stability.
- Durable.
- Fiberglass cloth can be added as a laminate for extra tensile strength.

ADVANTAGES

- Meets or exceeds USDA, FDA, OSHA and LEEDS requirements.
- Easily cleaned and decontaminated.
- Available in standard and custom colors.

- Texture can be smooth or slight orange peel finish.
- Resistant to mold, mildew and fungi.
- Does not promote bacterial growth.
- Resistant to chemical attack and etching.
- Resistant to abrasion.
- Can be fiberglass reinforced.
- Resistant to UV degradation.

HEAT RESISTANT EXPOSURE

Continuous at 120 °F
Intermittent at 300 °F

SURFACE PREPARATION

The substrate must be sound and clean. Remove all dirt, dust, spalling or loose concrete, oil, grease, wax, mildew, efflorescence, laitance, curing compounds, form release agents, paint or any other foreign material which might effect the bond. Suitable preparation methods include grit-blasting, scarification and acid etching. New concrete must be fully cured (28 days minimum). Cracks must be repaired. The recommended minimum pull-off strength of the prepared substrate is 200 psi.

CONCRETE MOISTURE CONCERNS

Moisture vapor transmission in the slab should be measured prior to application of polymer systems to ensure a long lasting, durable installation. Moisture emission must not exceed 3.0 pounds per 1,000 square feet per 24 hours.

MIXING

PG-100E Wall & Ceiling is a two-part resin, one-part hardener ratio material: (2) Part A: (1) Part B. When combined

and mixed, PG-100E Wall & Ceiling has a 15 minute pot life. Mix together only a total volume that can be applied within pot life.

CHEMICAL RESISTANT LEVELS

Level I: PG-100E Wall & Ceiling

Provides good chemical resistance in environments where there is limited chemical exposure to chemicals such as:

- Anti-freeze (Propylene Glycol)
- Kerosene
- Sodium Hydroxide @ 50%
- Urine

Level II: PG-100E Wall & Ceiling CRD

Provides increased chemical resistance in environments where upgraded chemical resistance is needed for exposure to chemicals such as:

- Acetic Acid 10%
- Formaldehyde 37%
- Phosphoric Acid
- Tannic Acid

Level III: PG-100E Wall & Ceiling CRA

Provides maximum resistance in environments where there is extreme chemical exposure to chemicals such as:

- Ammonium Hydroxide 30%
- Chromic Acid 25%
- Nitric Acid 65%
- Sulfuric Acid 98%

APPLICATION

PG-100E Wall & Ceiling can be applied using a roller.

CURING

PG-100E Wall & Ceiling at 65 °F will cure within 4 to 6 hours. NOTE: If PG-100E Wall & Ceiling is allowed to cure



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for more than 18 hours, the surface should be sanded to abrade.

SLIP RESISTANCE & CLEANABILITY

Normally, the smoother the finished surface, the easier the coating or flooring system is to clean. The more aggressive or textured flooring system will offer a greater degree of skid inhibition but is usually more difficult to clean.

CLEANING & DISINFECTING

Cleaning and disinfecting compounds and cleaning techniques may affect the color, gloss or texture of a polymer coating or flooring system. As a precautionary step, it is recommended that the end user test the cleaning and disinfecting compounds on a sample or small finished area utilizing the intended leaning technique prior to cleaning the entire surface. If no deleterious effects are observed, the procedure can be continued. However, if the cleaning and disinfecting compounds or cleaning technique damage the color, the gloss or texture modification of the materials and/or procedures are required.

LIMITATIONS

This product is best suited for application in temperatures between 55 °F and 95 °F. Substrate must be clean, sound and dry.

PACKAGING

- Three gallon can kits. 2) Part A: (1) Part B
- Five gallon pail kits. (2) Part A: (1) Part B

CAUTION

Follow the MSDS for proper 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

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.

TYPICAL PHYSICAL PROPERTIES

Physical Property	Test Method	Result
Tensile Strength	ASTM D 638	4,000 PSI
Tensile Strength	ASTM C 307	1,800 PSI
Compressive Strength	ASTM D 695	16,500 PSI
Compressive Strength	ASTM D 579	10,500 PSI
Bond Strength to Concrete	ASTM 4541	> 400 PSI
Impact Strength	MIL D 3134	PASSING
Hardness	ASTM D 2240 SHORE D	75-85
Elevated Temperature	MIL D 3134	No Slip or Flow
Electrical Conductivity	-	Non-Conductive
Flexural Strength	ASTM D 790	4,000 PSI
Linear Expansion	ASTM D 696	2 x 10
Indentation	MIL D 3134	.025 MAX
Abrasion Resistance	ASTM D 4060 Tabor Abrader C 17 1000 Gram Load, 1000 Cycles	0.15 gr
Coefficient of Friction Smooth	ASTM D 2047	0.7
Water Absorption	ASTM D 570	0.04%
Flammability	ASTM D 635	Self Extinguishing
Flame Spread NFPA-101	ASTM E 84	Class B
Anti-Microbial Resistance	ASTM G 21	Passes
Yellow Index	ASTM D 1925	<15@ 2,000 Hours
Toxicity	-	Non-Toxic USDA Approved
VOC Content	-	Zero

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