

# PG-100E UNDERLAYMENT

**A SOLVENT-FREE, TWO PART EPOXY USED AS A PRIMER, CONCRETE REPAIR MORTAR, A BROADCAST, A RESURFACING SCREED OR SELF-LEVELING SYSTEM**

**PG-100E UNDERLAYMENT** is a low viscosity, 100% solids, solvent-free, two-part epoxy designed to be used as a primer, a concrete repair mortar, a broadcast, a resurfacing screed or a self-leveling system. PG-100E Underlayment is durable and provides mild chemical resistance. **PG-100E Underlayment is NOT to be used as a top-coat.**

**PG-100E Underlayment can also be used as a high build primer over wood, tile and concrete for the PolyGreen CB, SB & TS Systems.**

## ADVANTAGES

- Meets or exceeds USDA, FDA, OSHA and LEEDS requirements.
- Economical.
- Ideal for leveling and sloping.
- Resistant to mechanical wear.
- Durable and long lasting.
- Quick installation.
- Primer.
- High build.
- Slurry/broadcast.
- Self-Leveling.
- Patching mortar.
- Available in Clear and Colors.

## 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.

## TYPICAL PHYSICAL PROPERTIES

Physical Property	Test Method	Result
Tensile Strength, (Resin) min.	ASTM D 638	5,000 PSI
Compressive Strength	ASTM C 579	8,000 PSI
Compressive Strength	ASTM D 695	10,000 PSI
Flexural Strength	ASTM C 580	3,000 PSI
Bond Strength to Concrete	ASTM D 4541	> 400 PSI
Impact Strength	MIL D 3134	PASSING
Hardness (Resin)	ASTM D 2240 SHORE D	70-80
Hardness (Aggregate)	MOH's Mineral Scale	6.5 -7.0
Abrasion Resistance	ASTM D 4060 Tabor Abrader C 17 1000 Gram Load, 1000 Cycles	0.06 gr
Water Absorption	ASTM D 570	0.20%
Flammability	ASTM D 635	Self Extinguishing
Anti-Microbial Resistance	ASTM G 21	Passes

## 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.

## MIXING

PG-100E Underlayment is a two-part resin, one-part hardener ratio material: (2) Part A: (1) Part B. When combined and mixed, PG-100E Underlayment has a 15 minute pot life. Mix together only a total volume that can be applied within pot life.

## APPLICATION

PG-100E Underlayment can be applied using a roller, brush or squeegee and back roll method.



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## PATCHING

When using PG-100E Underlayment and sand to patch or pitch, mix PG-100E Underlayment first then add sand to achieve desired stiffness and apply using a trowel.

## CURING

PG-100E Underlayment at 65°F will cure within 4 to 6 hours. NOTE: If PG-100E Underlayment is allowed to cure for more than 18 hours, the surface should be sanded to abrade.

## LIMITATIONS

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

## PACKAGING

- One 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](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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