

# Absolute Protective Coatings

## TECHNICAL DATA

### DESCRIPTION

PG-1 is a 100% solids, 2-component, epoxy system.

PG-1 is commonly used as a top coat over other Absolute Protective Coatings systems or as a stand-alone roll on, or trowel on coating for concrete or wood floors.

VOC content: Trace VOC (less than 5 g/l).

### Typical Applications

- ✓ Food Processing Plants
- ✓ Manufacturing Facilities
- ✓ Restrooms
- ✓ Locker Rooms
- ✓ Hospitals
- ✓ Mechanical Rooms
- ✓ Loading Docks

### FEATURES

*Clear or Pigmented Versions*

*Easily Mixed with Conventional "Jiffy" Paddle Mixer and Drill Motor*

*Aggregate in Base Coat can be varied for different surface effects*

*Seamless*

*Eliminates joints and seams which could accumulate dirt or bacteria*

*Excellent Property Retention under fluctuating conditions*

*Aids in Preventing Fluid Permeation*

*Outstanding Abrasion Resistance*

*Excellent Resistance to Dilute Alkali and Acid Environments*

*Designed for Ease of Application*

*Economical and Cost Effective*

*A Durable, Long-Life, Industrial Coating/Resurfacer*

*Can be modified to suit a variety of traffic exposures*

### USAGE

PG-1 is widely used as a tough, durable, industrial coating system over concrete, wood or metal substrates.

The many features, versatility, and proven durability of PG-1 have established this system as the ideal coating/Resurfacer for applications such as food processing plants, manufacturing facilities, restrooms, locker rooms, hospitals, mechanical rooms and loading docks.

### LIMITATIONS

Apply ONLY to properly cleaned and prepared surfaces. Do NOT apply to wet, dirty, greasy, scaling or waxed surfaces. Consult our technical department if temperature in application area is below 50° F or if finished coating system is to be continuously exposed to temperatures of 180° F or more.

### PROPERTIES

Tensile strength,psi.....	10,500
Modulus of elasticity psi.....	4.5 x 10.5
Compressive strength (22°C/77°F).....	16,600
Flexural strength psi.....	19,900
Barcol hardness.....	85
Deflection temperature.....	100°C
Water absorption (2 hour boil).....	1.2%
Lineal shrinkage in/lb @25° C/77°F.....	0.00020
Resist elevated temperature.....	good

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(no slip or softening)  
Resist moisture and temp change.....good  
(no slip or softening)  
Resist corrosion.....good  
Mix Ratio.....2 A:1 B by  
Volume  
Accelerated Light and Weathering  
Checking or Cracking.....None  
Other deterioration.....None

NOTE: Physical properties based on PG-1 resins. Individual coating system may vary depending upon aggregates and fillers used.

**STANDARD COLORS (Use Absolute pigment series "LD-ED")** Clear • Tile Red • Gray • Tan

## COVERAGE

Typical roll-on coating 50-100 square feet per gallon.  
Typical slurry application 12.5 - 25 sq ft @ 60 - 125 mil thickness WFT.

## PACKAGING

4.5 gallon kit

Net Volume A: 3 gallons (29.3 pounds)

Net Volume B: 1.5 gallons (13.4)

1.5 gallon kit

Net Volume A: 1 gallon (9.77 pounds)

Net Volume B: half gallon (4.47 pounds)

## SHIPPING WEIGHT

8.7 lbs. per gallon

# INSTALLATION GUIDELINES

## PRE-OVERLAY CHECKLIST

1. All substrates shall be sound, solid and free from any loose or failing components. Substrates must not flex or deform under load. All surfaces must be free from previously applied

coatings, dust, rust, scale, grease, oil, and other bond breaking contaminants.

2. Cracks greater than 1/6 inch in width shall be routed to a minimum of 1/4 inch wide by 1/4 inch deep and filled.
3. Fill all expansion joints as required.
4. All application equipment shall be in good operating condition.
5. Coating materials shall not be applied when the ambient air temperature or the surface temperature is outside the boundaries as stated on the product data sheets and application guidelines.
6. Keep material out of sun or hot areas prior to applying, as this may cause working time to be diminished and could cause poor appearance and/or adhesion.

## SURFACE PREPARATION

1. Prepare surface to a minimum CSP-3 profile, removing all surface contaminants, including sealers, oils, or other bond inhibiting substances. Mechanically abrade by shotblasting, or other means to provide a coarse (rough) texture.
2. Rout out all cracks to a minimum of 1/2" wide by 1/2" deep, using concrete saw equipped with dry cut crack chasing blade.
3. Vacuum surface free of all dust and dirt.
4. Fill all routed cracks with Absolute Protective Coatings approved material (recommend PG-1 Grout, Facelift depending on conditions).

## MIXING AND INSTALLATION INSTRUCTIONS

Note: please consult product labels for appropriate mixing ratios.

### **If adding pigment:**

Add pre-measured color pack to resin (part A)

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and blend for two minutes or until thoroughly and evenly dispersed.

1. Blend Part A with slow speed drill and Jiffy Mixer for two minutes.
2. Add Part B to Part A and continue mixing for 3 minutes or until uniform.

NOTE: When mixing, submerge mixing blade into product to minimize air entrapment.

3. Apply using roller (high-quality, shed resistant, low-lint, 3/16" or 3/8" nap roller), squeegee.
4. Immediately after mixing pour material onto floor in ribbons or bands.
5. Spread to specified thickness using notched squeegee and back roll with approved roller.

NOTE: In humid environments PG-1 may develop what is known as an "epoxy blush" during cure. Therefore, for applications requiring more than one coat carefully examine coating for signs of blush ( a greasy, whitish film or low gloss ). Remove blush with warm water and detergent, rinse thoroughly. Blush may also be removed with solvent wipe. If more than 24 hours between coats sand with 36 grit sand paper and floor buffer and remove dust with tack cloth prior to coating.

## NON-SKID APPLICATIONS

*Heavy Duty/Forklift Traffic*

1. Broadcast choice of Unimin, Emery, or White Aluminum Oxide into uncured coating.
2. Wait a minimum of 8 hours before topcoating.
3. Apply additional PG-1 topcoat to lock-in traction aggregate following **MIXING AND INSTALLATION INSTRUCTIONS**

## SLURRY APPLICATIONS

*Heavy Duty/Forklift Traffic*

Note: please consult product labels for appropri-

ate mixing ratios.

For mixing purposes, one batch consists of .5 gallon A, 1 gallon B, and 30 lbs (1 bag) of C (ESL-3) Filler.

1. Pour .5 gallon Part B into clean, dry 5 gallon pail. Then 1.5 gallon Part A into the same 5 gallon pail that contains Part B.
2. Immediately and thoroughly mix A and B components together for a minimum of 1 minute, using slow-speed drill motor (450-750 rpm) and jiffy paddle, until thoroughly blended.
3. As mixer is turning, slowly add 1 bag (30 lbs) Part C (ESL-3) filler and mix for a minimum of 3 minutes or until filler is thoroughly saturated. Resulting polymer paste will flow smoothly through mixing paddle.
4. Immediately pour onto floor in ribbons and spread to specified thickness (60-125 mils) with gage rake or notched trowel.
5. Back roll with spike roller to level.

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## APPLICATION OVER EXISTING EPOXY COATING

1. Clean coating of all dirt, grease, oil or other contaminants by washing with degreaser or soap.
2. Rinse well with fresh water and dry.

3. Sand with sand paper, 36 grit on a floor buffer type sander.
4. Remove dust by vacuum and tack cloth.
5. Apply PG-1 at specified thickness.
6. Allow 24 hours to cure before returning to service.

## **CLEAN UP**

1. Clean tools immediately after use with xylene or MEK.

## **MATERIAL SAFETY DATA SHEETS**

Material safety data sheets are available upon request. It is strongly recommended that all persons involved in the handling of Absolute Protective Coatings products read them.

## **WARRANTY NOTICE**

Recommendations for product use based on tests believed to be reliable. Field conditions vary widely. For this reason, the user must determine product suitability for the particular use and specific applications. Absolute Protective Coatings warrants that this product will be free of manufacturing defects for a period of (12) twelve months from date of manufacture. Absolute Protective Coatings will, at its option, replace any material or will refund the purchase price of any material that does not conform to our standard specifications, if the discovery of non-compliance is made within (1) one year of delivery of material. Absolute Protective Coatings liability and obligation is limited only to replacement or refund of product. Absolute Protective Coatings assumes no liability for injury, loss or damage resulting from use of this product.

## **CORPORATE CONTACT**

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