

# Excel-Coat PC-155

Data Sheet

## Epoxy Damp Concrete Primer (Clear)

### PRODUCT DESCRIPTION:

PC-155 is a two-component, high solids, liquid applied, epoxy-polyamine primer. The special blend of polyamine with small amounts of solvent gives unique penetrating characteristics and a rapid cure. It has a low viscosity and excellent adhesion to various substrates.

### PRODUCT FEATURES:

- Excellent adhesion to concrete and masonry surfaces.
- May be applied to damp or moist surfaces.
- For use under all epoxy, urethane and acrylic flooring systems.
- Develops early tack, yet has a long "open time".
- The special tack helps prevent delamination of toppings and mortars at "bond line".
- Excellent for use as a clear concrete sealer
- California VOC Compliant.

### TECHNICAL DATA

**Color:** Part A – Clear; Part B – Light Amber

**Solids Content (mixed):** 92 ±2%

**Theoretical Coverage:** 1,187-sq. ft. per gallon @ 1.0 DFT

**Recommended Coverage:** 300-400 sq. ft. per gallon to yield approx. 4-5 mils DFT

**Mixing Ratio:** 2:1 by volume

**Pot Life:** 25-35 minutes @ 75° F.

**VOC:** = 100 GM/L

New VOC compliant formula for Southern California

**Clean Up:** Toluene or Xylene

**Shelf Life:** 12 months minimum when stored between 50° F- 90° F.

**Application Temperature:** 45° F. to 100° F.

**Application:** Brush, spray or roller

**Thinner:** None

**Recoat Time @ 75° F.:**

1. For 100% solids resins & 100% solids coatings: 1-2 hours. Do not let primer dry when applying 100% solids material.
2. For Solvent Coatings: 2-4 hrs. minimum or overnight, and 24 hours maximum. PC-155 should be DRY before recoating with solvent coating. Do not apply while still tacky.

**Packaging:** 1 ½ and 3 gallon kits

### PRODUCT USES:

For priming concrete surfaces and for bonding monolithic epoxy, urethane or acrylic toppings and coatings.

As a sealer coat for new or old concrete surfaces to prevent penetration of water and chemicals.

To help eliminate "dusting" of concrete, and with heavier application, spalling and deterioration of concrete.

Ideal for warehouse floors, loading docks, shop floors, garages, aircraft hangars, exterior walkways, sumps, tank pads, pump supports, silos, and other concrete surfaces.

### PHYSICAL PROPERTIES:

PHYSICAL PROPERTY	TYPICAL VALUE	TEST METHOD
Coverage Rate	300-400 ft <sup>2</sup> /gal	
Film Thickness per Coat	4 ± 1 mils	
Hardness	70 ± 5 Shore D	
Shelf Life	12 months	
Specific Gravity Part A	1.05	
Part B	1.02	
Solids Content (Mixed)	92 ± 2%	ASTM D-1353
VOC Content	100 gm/l	Calculated
Viscosity at 24°C (75°F) Part A	150 ± 50 cps	
Part B	300 ± 50 cps	

### SURFACE PREPARATION:

Excellent Coatings International recommends four types of surface preparation. Any one of the four surface preparations may be sufficient or a combination of the four may be required depending on the condition of the concrete surface.

1. **High Pressure Wet Abrasive Blast Cleaning** - All loose and unsound concrete must be mechanically removed down to sound concrete by means of power tool equipment, such as, chipping/scaling hammers, rotary scalers, etc.
  2. **Acid Etch** - Apply Clean & Etch Concrete Acid Solution at a spread rate of approximately 75-150 square feet per gallon. Work the solution into the concrete with a stiff broom or fiber brush. Allow solution to remain on the concrete surface for approximately 10 minutes or until the effervescing and bubbling ceases. Neutralize with a solution of 10% ammonia in water and flush floor thoroughly with clean, fresh water to remove all laitance, dirt, and other foreign materials. Surface shall be allowed to dry completely before applying primer.
- NOTE:** Do not allow the clean & etch solution to dry on the floor before neutralizing and flushing off because dried acid, dirt, etc. can be re-deposited into the pores of the concrete. Check pH to verify a neutral surface condition.
3. **Vacuum Blast** – All areas of the existing concrete shall be vacuum abrasive blast cleaned using a shot blast machine with dust collector. A 5.0 – 10.0 mil anchor

## Excellent Coatings International

10880 Poplar Avenue, Fontana, CA 92337

909-823-8800 800-473-3817 Fax: 909-823-6309

<http://excellentcoatings.com> Email: [info@excellentcoatings.com](mailto:info@excellentcoatings.com)

profile pattern shall be achieved to provide maximum adhesion of the recommended system. A thorough washing may be necessary prior to blasting to remove all foreign matter. Check with Blastrac Mfg. for proper application procedures.

4. **Dry Abrasive Blast** – Abrasive blast concrete surface to remove all laitance, loose concrete, coating, sealers, etc. It is necessary to achieve a rough anchor pattern and get to sound concrete. All blast material and foreign matter must be removed before application.

New concrete must be cured at least a minimum of 28 days before applying this coating. All laitance, efflorescence, chemical contaminants, grease, oil, and other foreign material must be removed. The prepared surface must be clean, dry and structurally sound.

#### **MIXING INSTRUCTIONS:**

PC 155 Part-A and Part-B should be thoroughly agitated prior to mixing to ensure a homogeneous material. PC 155 must always be mixed in the ratio of two parts Side-A with one part Part-B (Part-A: Part-B = 2:1). The combined components should be thoroughly mixed for at least 2 minutes. Induction time is not required.

#### **APPLICATION PROCEDURE:**

1. For best results, apply by roller, using a medium nap, phenolic core roller cover. Apply an even, uniformly wet film while working material into surface. Do not allow material to puddle. Spread rate will be approximately 150 to 250 square feet per mixed gallon, depending upon porosity of concrete surface.
2. PC-155 may also be sprayed, but then should be "back-rolled" to produce a uniform coat. For small areas and "cutting in" use a pure bristle brush. Do not apply to surfaces below 45° F or above 100°F.
3. For safety and product curing, proper ventilation is necessary throughout application and cure. When using pigmented finish coats, be sure the batch numbers are all the same to provide a uniform color.
4. Do not apply if the surface is within 5° of the Dew Point. PC-155 Base and Hardener should be stored at 75°-85°F to help maintain a lower, rollable viscosity. Do not apply when material is cold.

#### **PRIMER FOR SOLVENT BASED MATERIALS:**

When used as a primer for solvent coatings, PC-155 must be dry. Under the same conditions this will be 6-8 hours minimum and 24 hours maximum. If the re-coat time is in excess of 24 hours, sanding with 80-100 grit open paper is required. Then another coat of PC-155 Primer should be applied.

#### **PRIMER FOR EXCEL-CRETE POLYMER MODIFIED CEMENTS:**

As a primer for acrylic polymer cements, PC-155 should be top-coated while slightly tacky. This will be from 1-6 hours at 75°F when the PC-155 is applied at a rate of 300-400 square feet per gallon.

#### **CAUTIONS:**

PC-155 is flammable. Keep away from all sources of ignition during storage, mixing, application and cure.

The Hardener (Part B) either alone or when mixed with Base (Part A) can cause eye and skin burns as well as allergic reactions.

When spraying, the use of goggles, fresh air masks or NIOSH approved respirators, protective skin cream, and protective clothing is recommended as a standard practice.

#### **STORAGE AND HANDLING:**

Store Excel-Coat products in a cool, dry area and protect from freezing. It may be necessary to stir Excel-Coat products before using. Dispose of empty containers properly according to current Local, State and Federal regulations.

#### **HEALTH AND HAZARD INFORMATION:**

Use Excel-Coat products with adequate ventilation and personal protection. Users must read container label and Safety Data Sheet (SDS) for specific health and safety precautions prior to use.

#### **AVAILABILITY:**

Immediately available from Excellent Coatings International and authorized distributors.

#### **COST:**

Cost data is available from Excellent Coatings International or their authorized representative. For the name and number of the nearest local representative, call Excellent Coatings International at (800) 473-3817.

#### **PRODUCT GUARANTEE / WARRANTY:**

Excellent Coatings International warrants Excel-Coat material to be free of defects and manufactured to meet published physical properties for a period of one year following the date of shipment, provided that the product has been applied according to the manufacturer's instructions. Under this warranty, Excellent Coatings International will provide, at no charge, product in containers to replace any product proved to be defective in applications recommended by us as suitable for this product. All claims concerning the product's defects must be made within twelve months of shipment and within thirty days of discovery. Absence of such claims in writing during this period will constitute a waiver of all claims with respect to such product. THIS WARRANTY IS MADE IN LIEU OF ANY AND ALL OTHER WARRANTIES, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A SPECIFIC PURPOSE.

#### **TECHNICAL SERVICES:**

Authorized local representatives are available to provide design assistance and on-site instructions for our products. Excellent Coatings International provides assistance in design and development of special applications as well as full or part time inspections. Part-time and full-time inspections and instruction are available on a fee basis upon arrangement. Technical data is available upon request.