



PCE-200

General Purpose Epoxy

Paramount Coatings – PCE-200 General Purpose Epoxy is an economical, two-component, low viscosity, low odor, clear or pigmented epoxies that can be used as a primer, body coat, receiving coat, mortar binder and top coat. It is available in a Standard Cure, Fast Cure or Long Pot Life. It meets all VOC regulations in North America.

COLOR

Clear or Pigmented with 10 Color Pigment Pack

FEATURES

- Complies with USDA, FDA, Food Safety Modernization Act.
- With the Correct Aggregate Meets Slip Resistance (ADA) for flat and incline surfaces.
- LEED® and Green Seal® requirements.
- 100% Solids, Zero VOC and EPA Compliant, and low odor during installation. Cures to an inert finish.
- Strong and Tough Floor.
- Designed for new floors and for resurfacing old floors
- Standard Cure, also available FC (Fast Cure) and LPL (Long Pot Life)

LIMITATIONS

- This product is best suited for applications in temperatures between 60°F to 90°F (16°C to 32°C).
- Scratches can appear white.
- Higher temperatures will result in shortened working time and faster drying time.
- Color may vary due to batch to batch variation, always “box” different batches to avoid color differences.
- Do not use as a primer when concrete slab exceeds ASTM F1869 3 lbs. or ASTM F2170 80% RH.

USES

- Automotive Show Room and Repair Floors
- Commercial Bakeries and Kitchens Floors
- Hospital and Health Care Facility Floors
- Laboratories and Research Floors
- Manufacturing and Warehouse Floors
- Pharmaceutical Floors
- Residential Interiors and Garage Floors

*See Paramount Coatings Top Coats and Finish Coats for Enhanced Abrasion, Chemical and Stain Resistance.

COVERAGE RATE PER GALLON

- Primer: 200 sq. ft. (18.9 sq. m.) WFT 8 (0.20)
- Coating: 100 to 160 sq. ft. (9.3 to 14.9 sq. m) WFT 10 to 16 mils (0.25 to 0.41 mm)
- Broadcast, Slurry and Trowel: Varies Depending on thickness of system selected. 1/16 to 1/4 inch (1.59 to 6.35 mm) and more.

CHECK CONCRETE MOISTURE

Concrete must be dry before application of this floor coating material. Concrete moisture tests are required, either ASTM F1869 (calcium chloride) or ASTM F2170 (in situ RH probe).

TEMPERATURE and HUMIDITY

Floor and material temperature must be at or above the published Technical Data Sheet requirements. Relative Humidity must be 5°F (3°F) below the dew point. Do not apply if humidity is at or above 85%.

SURFACE PREPARATION

Surface preparation in accordance with: ICRI Guideline No. 310.2R Selecting and Specifying Concrete Surface Preparation for Sealers, Coatings, Polymer Overlays, and Concrete Repair. The pH of the concrete substrate should be at 9 or above. All bond-breaking material must be removed.

APPLICATION EQUIPMENT

Depending on system applied: Disposable 3” brush for cutting in, variable low speed drill (450 rpm) with Jiffy® type impeller mixing paddle, 3/8 inch nap non-shedding phenolic core roller and V-notched rubber squeegee for spreading neat epoxy and gauge rake or trowels for thicker applications.

MIXING

Mix Ratio 2:1. For ease of mixing and placement, the temperature of the “A” and “B” components should be between 70°F to 80°F (20°C to 26°C). Pre-mix the “A” and “B” components to ensure all raw material and pigments are dispersed uniformly.



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APPLICATION

After mixing all contents as instructed, immediately pour all liquid material on to the properly prepared concrete substrate or next epoxy lift in ribbons and squeegee the material out evenly. Check for desired wet film thickness with a WFT Gauge. Back-roll and cross rolling of material is critical for receiving coat, lock coat, grout coat, top coat and finish coat. If broadcasting aggregate, broadcast into the wet material. Place trowel mortar mix within installation sequence.

SKID-RESISTANCE

Skid-Resistance – Field (in situ) Wet Dynamic Coefficient of Friction (DCOF), ANSI A326.3.

CLEAN-UP

Clean-up mixing station, tools and equipment as required. Use acetone, a VOC exempt solvent, for cleaning up. Observe all legal, and health and safety precautions when handling or storing solvents and materials, particularly in confined spaces. Make sure the working areas are well ventilated at all times during placement and curing time.

PHYSICAL PROPERTIES 77°F (25°C)

VOC (Volatile Organic Compounds), (VOC Calculated Per ASTM D3960)	0 gr./lt.			
Viscosity, Mixed Epoxy and Hardener	750 cps			
Primer Optional - Dilute with 10% Acetone will lower viscosity	350 cps			
Mix Density, Mixed Epoxy and Hardener	9.2 lb./gal			
Pot Life, gallon (3.79 liters) Mass, Pot Life is Reduced by Increases in Mass & Temperature	<table border="1"> <tr> <td>Long Pot Life 35 Minutes</td> </tr> <tr> <td>Standard 20 Minutes</td> </tr> <tr> <td>Fast Cure 10 Minutes</td> </tr> </table>	Long Pot Life 35 Minutes	Standard 20 Minutes	Fast Cure 10 Minutes
Long Pot Life 35 Minutes				
Standard 20 Minutes				
Fast Cure 10 Minutes				
Mix Ratio, by Volume	2:1			
Dry to Touch	6 Hours			
Recoat Time	18-24 Hours			
Foot Traffic	24-36 Hours			
Light Traffic	72 Hours			
Full Cure	7 Days			
Shelf Life (shipped and stored) at 40°F to 100°F (4.4°C to 38°C)	1.5 Years			
Packaging 1 ½, 15 gal (3.79, 56,8 liters)				

MECHANICAL PROPERTIES 77°F (25°C)

Compressive Strength, ASTM D695	9,500 psi
Compressive Strength, ASTM C579, with aggregate	10,750 psi
Tensile Strength, ASTM D638	7,500 psi
Tensile Elongation, ASTM D638	5%
Flexural Strength, ASTM D790	9,500 psi
Slant Shear, ASTM C882	4,000 psi
Adhesion, ASTM D7234, Concrete Failure	>400 psi
Hardness (Shore D) ASTM D2240	75 – 85
Water Absorption, ASTM D570 Resin & Hardener	0.15%
Flame Test, ASTM E648	Class 1
Flammability, ASTM D635, Bonded to Concrete	Self-Extinguishing
Abrasion Resistance, ASTM D4060 Resin & Hardener 1,000 cycles, Wheel No. CS17, 1000 gr. Load	0.051 gr.
Coefficient of Thermal Expansion (-22°F to 86°F)	1.8 X 10 ⁻⁵ in./in. °F
Microbial (fungi) Resistance ASTM G21 (Without the Anti-Microbial Agent)	Pass #1
Dynamic Coefficient of Friction, ASNI 326.3 Depends on texture of system selected, ranging from smooth to aggressive. BOT 3000E	>0.45 (inclines) >0.42 (level)
Moisture Vapor Emission Rate, ASTM F1869*	3 lbs.
Moisture Relative Humidity, ASTM F2170*	80% RH
*Contact Paramount Coatings when Numbers exceed limitations for Moisture Mitigation recommendations.	
Note: Although testing is critical, it is not a guarantee against future problems. This is especially true if there is not a positive side vapor barrier or it is not functioning properly and/or concrete is contaminated from oils, chemical spills, densifiers, excessive salts or other bond breakers.	



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DISCLAIMER:

Please read all information in the Safety Guidelines, Technical Data Sheets, Guide Specifications and Safety Data Sheets (SDS) before applying material. Paramount Coatings Products are for **“Professional Use Only”** and preferably applied by professionals who have prior experience with the Paramount Coatings Products or have undergone training in application of Paramount Coatings Products. Published technical data and instructions are subject to change without notice. Contact your local Paramount Coatings representative or visit our website for current technical data, instructions, and project specific recommendations.

All guidelines, recommendations, statements, and technical data contained herein are based on information and tests we believe to be reliable and correct, but accuracy and completeness of said tests are not guaranteed and are not to be construed as a warranty, either expressed or implied. It is the user’s responsibility to satisfy himself, by his own information and test, to determine suitability of the product for his own intended use, application and job situation and user assumes all risk and liability resulting from his use of the product. We do not suggest or guarantee that any hazard listed herein are the only ones which may exist. Neither seller nor manufacturer shall be liable to the buyer or any third person for any injury, loss or damage directly or indirectly resulting from use of, or inability to use, the product. Recommendations or statements, whether in writing or oral, other than those contained herein shall not be binding upon the manufacturer, unless in writing and signed by a corporate officer of the manufacturer. Technical and application information is provided for the purpose of establishing a general profile of the material and proper application procedures. Test performance results were obtained in a controlled environment and Paramount Coatings makes no claim that these tests or any other tests, accurately represent all environments.

LIMITED WARRANTY

There is NO WARRANTY exists if the buyer has not met the Paramount Coatings Terms and Conditions of Sales. Paramount Coating warrants its products to be free of manufacturing defects and that they will meet Paramount Coating current published physical and chemical properties. Seller’s sole responsibility shall be to replace that portion of the product which proves to be defective. There are no other warranties by Paramount Coating of any nature whatsoever expressed or implied, including any warranty of merchantability or fitness for a particular purpose in connection with this product Paramount Coating shall not be liable for damages of any sort, including remote or consequential damages resulting from any claimed breach of any warranty whether expressed or implied. Paramount Coating shall not be responsible for use of this product in a manner to infringe on any patent held by others. In addition, no warranty or guarantee is being issued with respect to appearance, color, fading, chalking, staining, shrinkage, peeling, normal wear and tear or improper application by the applicator. Damage caused by abuse, neglect and lack of proper maintenance, acts of nature and/or physical movement of the substrate or structural defects are also excluded from the limited warranty. Paramount Coating reserves the right to conduct performance tests on any material claimed to be defective prior to any repairs by owner, general contractor, or applicator.