

PCE-100

WaterBorne Epoxy Primer & Coating

Paramount Coatings – PCE-100 WaterBorne Epoxy Primer & Coating. It is provided as a two-component epoxy that is field extended with potable water for enhanced penetration. It can be placed as a second coat for an economical coating. It is a low viscosity, low odor, clear or pigmented waterborne epoxy. It meets all VOC regulations in North America.

COLOR

Clear or Pigmented with 10 Color Pigment Pack
Note: When used as Primer, use unpigmented.

FEATURES

- Can be used over properly prepared concrete that dry or damp SSD (saturated surface dry).
- Primer for all Paramount Coating epoxy products
- Economical epoxy coating system
- Complies with USDA, FDA, Food Safety Modernization Act.
- With the correct broadcast aggregate meets Slip Resistance (ADA) for flat and incline surfaces.
- LEED® and Green Seal® requirements.
- VOC and EPA Compliant, and low odor during installation.
- Cures to an inert finish.
- Designed for new floors and for resurfacing old floors

LIMITATIONS

- This product is best suited for applications in temperatures between 60°F to 90°F (16°C to 32°C). Do not apply when Relative Humidity exceeds 85%.
- 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

- Primer for all Paramount Coating Epoxies
 - Economical Thin Mil Epoxy Coating
 - Residential Interiors and Garage Floors
- *See Apply Paramount Coatings Top Coats and Finish Coats for Enhanced Abrasion, Chemical and Stain Resistance.

COVERAGE RATE PER GALLON

- Primer: 160 to 200 sq. ft. (14.9 to 18.9 sq. m.) 8 to 10 mils (WFT)
- Pigmented Coating over Clear Primer: 200 sq. ft. (18.9 sq. m.) 6 mils (WFT)

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%, since air will be saturated and cure may be arrested.

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.

MIXING

Mix ration 4:1:1. Pre-mix the “A” (4) and “B” (1) component to ensure all raw material and pigments are dispersed uniformly. After mixing the “A” and “B” components together add “C” potable water (1).

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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.

*Make sure the product is **not** puddled, because if it is puddled when cured it will affect its physical properties.

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)	50 gr./lt.
Standard Viscosity Clear , Mixed Epoxy, Hardener and Water	100 – 150 cps
Percent Solids by Volume , Clear	40%- 2%
Percent Solids by Volume , Pigmented	44%-46%
Pot Life , 1 gallon (3.79 liters) Mass, Pot Life is Reduced by Increases in Mass and Temperature	1–2 Hours
Mix Ratio, by Volume (Resin, Hardener and Potable Water)	4:1:1
Dry to Touch	2 Hours
Recoat Time	8-10 Hours
Light Traffic	24 Hour Minimum

Full Cure	5 to 7 Days
<ul style="list-style-type: none"> Relative humidity in excess of 70% will retard cure times. Enhanced air movement will help flash off the moisture in the product. The higher the temperature and the lower the humidity the shorter the cure time. The lower the temperature and the higher the humidity the longer the cure time. 	
Shelf Life (shipped and stored) at 40°F to 100°F (4.4°C to 38°C)	1.5 Years
Packaging 3 and 15 gal. (11.4 and 56.8 liters)	

MECHANICAL PROPERTIES 77°F (25°C)

Surface Preparation ICRI 310.2R Concrete Surface Profile (CSP 2 and above) Depending on System to be Installed and Condition of Concrete.	
Resin, Hardener and Potable Water	Standard
Gloss (60 degrees), ASTM D523	85-90
Pencil Hardness, ASTM D3363	F-H
Adhesion, ASTM D7234, Concrete Failure	>400 psi
Flexibility (Mandrel Cylinder 1/4 Inch), ASTM D1743	Passes
Flame Test, ASTM E648	Class 1
Microbial (fungi) Resistance, ASTM G21 (Without the Anti-Microbial Agent)	Pass #1
Moisture Vapor Emission Rate, ASTM F1869*	3 lbs.
Moisture Relative Humidity, ASTM F2170*	80% RH
*If moisture or relative humidity exceeds the limits consult the Paramount Coatings' representative.	
Note: Although testing is critical, it is not a guarantee against future problems. This is especially true if there is no 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.

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