

PCE No. 120

Epoxy Moisture Mitigation Barrier

Paramount Coatings – PCE-120 Epoxy Moisture Mitigation Barrier is used instead of a primer for non-porous and semi-porous flooring products. It is designed to be used on properly prepared concrete substrates placed in accordance with ACI 302.2R. If the concrete has not been placed in accordance with ACI 302.2R check with Paramount Coatings technical representative before installing. It is intended to be used when high moisture levels are detected before placing a moisture sensitive floor, such as, carpet, epoxy, polyaspartic, polyurea, polyurethane, wood, vinyl tile, etc. It is compliant with all VOC regulations.

COLOR

- Clear Amber
- Pigmented, only the second coat, if necessary.

FEATURES

- Complies with USDA, FDA, Food Safety Modernization Act.
- LEED® and Green Seal® requirements.
- FED VOC and EPA Compliant.
- Cures to an inert finish.
- Use in lieu of other primers
- 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) and when the humidity is below 85%.
- Higher temperatures will result in shortened working time and faster drying time.
- Do not use as a primer when concrete slab exceeds ASTM F1869 3 lbs. or ASTM F2170 80% RH.

USES

- Moisture Mitigation Barrier for Commercial, Industrial and Institutional non-porous and semi-porous flooring systems.
- Not recommended as a topcoat.

COVERAGE RATE PER GALLON

- Place at a minimum of 100 sq. ft. (9.29 sq. m) WFT 16 mils (0.41 mm)

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. Concrete must have a Concrete Surface Profile of CSP 3 to CSP 4. Shot blast with a 50/50 mix of 280 and 330 shot. Transitions, terminations, penetrations and confined areas must be diamond ground with a #40 disc or more aggressive diamond.

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 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 materials and pigments are dispersed uniformly.

APPLICATION

After mixing all contents as instructed, immediately pour all liquid material onto 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-rolling and cross rolling of material is critical.

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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)	<5 gr./lt.
Viscosity, Mixed	400 to 500 cps
Pot Life No. 120, 1 gallon (3.79 liters) Mass, Pot Life is Reduced by Increases in Mass & Temperature	35 to 40 Minutes
Mix Ratio, by Volume	2:1
Minimum Application Surface Temperature	50°F (10°C)
Dry to Touch 50°F to 90°F (10°C to 32°F)	2 to 6 Hours
Recoat Time 50°F to 90°F (10°C to 32°F)	6 to 24 Hours
Shelf Life (shipped and stored) at 40°F to 100°F (4.4°C to 38°C)	1 Year
Packaging 3 gal, 15 gal (11.4 lts., 56.8 lts.)	

MECHANICAL PROPERTIES 77°F (25°C)

Surface Preparation ICRI Guideline No. 310.2R – Concrete Surface Profile (CSP 2 and above) Depending on System to be Installed and Condition of Concrete.	
Compressive Strength, ASTM D695	10,000 psi
Tensile Strength, ASTM D638	7,500 psi
Tensile Elongation, ASTM D638	2.0%
Adhesion, ASTM D7234, Concrete Failure	>400 psi
Hardness (Shore D), ASTM D2240	70 - 80
Abrasion Resistance, ASTM D4060 1,000 cycles, Wheel No. CS17, 1000 gr. Load	0.03 gr.
Flammability, ASTM D635, Bonded to Concrete	Self- Extinguishing
Microbial (fungi) Resistance, ASTM G21 (Without the Anti-Microbial Agent)	Pass #1
Hydrostatic Resistance, ASTM D7088 tested results per ASTM D714	No Loss of Adhesion, No Softening & No Water Droplet Emissions
Permeance, ASTM E96, Procedure A	0.017 g/ft ² /hr/inHg
Moisture Vapor Emission Rate, ASTM F1869*	25 lbs.
Moisture Relative Humidity, ASTM F2170*	99% RH

*Concrete must be placed per ACI 302.2R, if the concrete has not been placed per ACI 302.2R or if test numbers exceed limits consult with Paramount Coatings technical representative.

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.



TECHNICAL DATA SHEET

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