



Description

The EPOXY PRIMER is a two-component VOC-free and 100% solids primer epoxy coating system. It offers a combination of long pot life/working time and fast curing. It has been formulated to obtain superior adhesion on concrete for high traffic applications. The EPOXY PRIMER formulation is based on a high-performance cycloaliphatic amine technology and has a very low viscosity and excellent early blush resistance.

Uses

The EPOXY PRIMER provides excellent results for the most demanding applications:

- + Industrial uses
- + Manufacturing facilities and warehouses
- + Commercial centers
- + Office buildings
- + Retail stores
- + Garages
- + Food/beverage processing and preparation plants
- + Public facilities including hospitals and schools
- + Pharmaceutical companies
- + Other commercial uses

Advantages

- + Environment friendly with no VOC, 100% solids
- + Minimal odor
- + Potential for LEED eligibility
- + Excellent penetration and adhesion to concrete
- + Very low viscosity
- + Best suited for high traffic applications
- + High elongation for optimal impact absorption and better protection when slab movements occur
- + High resistance to amine blush and contamination (fish eyes)
- + Long working time
- + Fast curing

Application Data

Mix Ratio	2A:1B	
Packaging	3 US gallon kits (3 x 3.78 L) 15 US gallon kits (3 x 18.9 L)	
Color	Clear	
Solids Coverage / US GAL	Mils	Sq. Ft.
	4	400
	5	320
	6	267

Shelf Life	One year, in original unopened factory pails under normal storage conditions
Pot Life	25 min
Application Temperature	Min 16°C / 61°F, Max 30°C / 86°F
Cure Time	22°C / 72°F and 50% Rel. Hum.
Working time	45 min
Tack Free	4 h
Recoat	4 - 24 h
Dry Through	8 h
Foot Traffic	24 h
Full Cure	1 week

Technical Properties

Hardness ASTM D2240	80	Shore D at maturity
Pull Off Test ASTM D4541	≈3 Mpa	
Solids Content	100 %	
Viscosity (A&B)	540 cps	
VOC Content	0 g/l	

Surface Preparation

Concrete should be clean, dry and free of grease, oil, paint, curing agents or any contaminants that may inhibit proper adhesion. Concrete should be cured at least 28 days before applying the coating system. If the concrete slab has been installed within 28 days, the LABPOX MVB moisture mitigation system can be considered (refer to the LABPOX MVB technical data sheet for additional details).

Proper testing procedures should be practiced with regards to soil acidity and moisture vapor transmission. Take a pH reading to ensure concrete is neutral (a reading between 5 and 9 is acceptable). Use a Tramex® CME / CMExpert to measure the moisture content of the concrete slab. Moisture content must be below 4% before applying the product. It is necessary to take several measurements at various places on the slab. If the reading is higher than 4%, steps will be required to neutralize the soil moisture. The first thing to do is to make sure that the floor is completely dry before application. Floors with higher results can receive the LABPOX MVB moisture mitigation.

Surface must be shot blasted or prepared with an equivalent mechanical means in line with CSP-2 or more. Ensure the surface is free of contaminants, and the pores are open to allow the product to penetrate.



Mixing

Before final mixing, pre-mix part A at low speed using a Jiffy® or an Exomixer® mixer blade. Then, using a Jiffy® or an Exomixer® mixer blade, mix two parts of A and one part of B together at low speed in a separate container. The mixing container must be clean and free of any outside particle. Mix thoroughly for a minimum of three minutes, until a completely homogeneous mixture is obtained. Use a low-speed drill (300-450 rpm) to minimize the entrapment of air. It is recommended to activate the mixer in the reverse mode after the first 90 seconds for the liquid to mix from the bottom of the mixing can to the top. Make sure to scrap sides and bottom of mixing container so no unmixed material remains. Mix only the necessary quantity to be used according to the specified pot life / working time. Once the product is properly mixed, it needs to be immediately poured on the floor. Leaving mixed material for too long in a mixing pail will create an exothermic reaction and the product will no longer be usable.

Application

Apply only when air and slab temperature is between 16°C / 61°F - 30°C / 86°F, and the relative humidity of less than 85%. If a heated floor is installed, ensure that the system is turned off 2-4 hours (depending on type of radiant floor) before application and for the full duration of the cure. The product has been designed to adhere to concrete surfaces.

It is recommended to use only the quantity required to seal the concrete prior to applying an epoxy base and topcoat (LABPOX 30 or LABPOX 40 UV). Apply with a squeegee in a thin coat without back rolling to seal the surface properly. This will also help reduce the creation of pin holes. If there is appearance of pin holes during the application, allow sufficient time to go back and either burst the pin holes by rolling back and forth or with another squeegee pass. If there are still pinholes after applying the first coat, sand and plug the pinholes with epoxy gel prior applying the second coat. A thickness of 4-6 mils is recommended for the EPOXY PRIMER. Coverage rates can vary significantly depending on the concrete's porosity.

Recoat

Labsurface's top coat epoxies will bind to the EPOXY PRIMER without sanding if installed within 24 hours. Beyond 24 hours, the floor surface should be sanded/abraded until a uniform dullness is achieved. There should be no gloss on the prior coating after vacuuming and before applying the next coat.

Limitations

Requires a dry substrate. Moisture content of the substrate must be measured with a Tramex® CME / CMExpert and must be below 4% before applying the product. This product should not be applied to concrete substrates that show high levels of

moisture/humidity unless a moisture a LABPOX MVB moisture mitigation system is used. The LABTEC Universal Pigment Pods are not compatible with the EPOXY PRIMER. Although this product may be applied in a wide range of thickness, limitations may apply when taking into consideration curing time. Everything else being equal, thicker is the film, quicker is the curing time. Drying time will be faster in a hot environment. Conversely, the drying time will be longer in a cold environment and the appearance of the surface may be affected. Leaving mixed material for too long in a mixing pail will create an exothermic reaction and the product will no longer be usable. Do not clean the finished surface during the week following installation. Keep the product stored at room temperature to ensure consistent results. Not suited for exterior applications. Although Labsurface makes reasonable efforts to control the quality of the finished product and its components, ASTM results may vary depending on the quality of the inputs delivered to Labsurface.

Labsurface stands behind the quality of its products. However, Labsurface cannot guarantee results since Labsurface has no control over surface preparation, operating conditions and application procedures. Clients are solely responsible to test Labsurface's products to determine if they perform as expected. To meet our strict requirements, we are continuously testing our coatings and on occasion, formulations may be modified to improve certain properties within each coating. Information and data included in this reference document may not be up to date as of the date of reference. Contact Labsurface for further information regarding the limitations of this product.

Exposure to certain chemicals may cause reactions similar to those experienced with allergies. Chemicals that may cause sensitivity include synthetic and natural substances found in the Part A or the Part B of flooring or casting products. Once cross linked and completely cured, those substances are inert and therefore should not result in allergic reactions. Raw materials used by Labsurface do not differ significantly from comparable products manufactured by our competitors.

Refer to the most recent Material Safety Data Sheet prior using this product.

Available Colors

Clear

Not compatible with LABTEC Universal Pigment Pods

Labsurface

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