LABPOX® PRIMER

VOC-Free Epoxy Primer with Pinhole Mitigation Technology

Technical Data Sheet

DESCRIPTION

The LABPOX® PRIMER is a 100% solids, two-component (2A:1B), and VOC-free epoxy primer for concrete floor coating. LABPOX® PRIMER is formulated with Pinhole Mitigation Technology that reduces pinholes by up to 98%. LABPOX® PRIMER offers a combination of long pot life/working time and fast curing. It has been designed to obtain superior adhesion on concrete for heavy/high traffic applications. The LABPOX® PRIMER formulation is based on a high-performance cycloaliphatic amine technology, featuring both very low viscosity and excellent early blush resistance.

USES

The LABPOX® 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

+ Pinhole Mitigation Technology reduces pinholes by up to 98%
+ Environment friendly with no VOC, 100% solids
+ Minimal odor
+ Potential for LEED eligibility
+ Higher Compressive and Tensile Strength
+ Excellent penetration and adhesion to concrete
+ Improves overall performance of floor systems
+ Very low viscosity (300 cps)
+ Faster setting and tack-free time allowing quicker turnaround
+ 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 (fisheyes)
+ Long working time
+ Fast curing

PRODUCT DATA

Mix Ratio	2A:1B	
Packaging	3 Gal kits (3 x 3.78 L) 15 Gal kits (3 x 18.9 L)	
Color	Clear	
Solids Coverage / 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	15 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	25 min	
Tack Free	2 h 30	
Recoat	3 - 24 h	
Dry Through	6 h	
Foot Traffic	24 h	
Full Cure	1 week	

TECHNICAL PROPERTIES

Hardness ASTM D2240	TBC	Shore D at maturity
Elongation at break ASTM D638		21%
Pull Off Test ASTM D7234		>3 Mpa
Tensile Strenght ASTM D638		6900 psi
Compressive Strenght ASTM D695		9400 psi (65 MPa)
Solids Content by Volume		100 %
Viscosity (A&B)		300 +/- 50 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, use LABPOX® MVB FAST as a primer (refer to the LABPOX® MVB FAST technical data sheet for additional details).

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Proper testing procedures should be practiced with regards to moisture vapor transmission. 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 should be primed using LABPOX® MVB FAST 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.

When applying a resinous coating over fiber-reinforced concrete, ensure that all surface fibers are completely removed before installing the primer or base coat.

When fibers are present in the concrete mix, the surface is more likely to develop an uneven or bumpy texture, as well as voids, which can be very difficult to correct once coated.

Voids in the coating can act as channels for contaminants, allowing moisture or chemicals to migrate beneath the coating. This may significantly reduce the system's performance and long-term durability.

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 pinholes. If there is appearance of pinholes during the application, allow sufficient time to go back and either burst the pinholes 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 LABPOX® PRIMER. Coverage rates can vary significantly depending on the concrete's porosity. Porous or soft concrete will require more base coat resin to achieve full saturation.

RECOAT

Labsurface's topcoat epoxies will bind to the LABPOX® 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.

AVAILABLE COLORS

Clear

Not compatible with LABTEC Universal Pigment Pods

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. The LABTEC Universal Pigment Pods are not compatible with the LABPOX® PRIMER. 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.

While resinous coatings provide excellent chemical and mechanical resistance, they are not immune to osmotic, alkali-silica reac-

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tion (ASR) or hydrostatic pressure. Moisture in the substrate may adversely affect coating performance such as blistering, delamination, or other coating failures.

The usage of direct-fired, unvented and certain other heat sources are not recommended as they emit byproducts that may negatively impact the curing process of the resin and lead to defects such as amine blush, whitening, loss of adhesion, or other surface imperfections.

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.

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