



# LABPOX LV

100% Solids, Ultra-Low Viscosity High Performance Epoxy

## Description

The LABPOX LV is a 100% solids two-component (2A:1B) ultra-low viscosity epoxy floor coating system which is virtually VOC-free. This product possesses mechanical properties best suited for aesthetic clear or metallic residential and commercial applications. It offers one of the longest pot life and working time of the industry. The LABPOX LV has been designed for metallic epoxy or clear flooring systems. The LABPOX LV formulation is based on a high-performance cycloaliphatic polyamine technology displaying outstanding properties and superior aesthetic finish.

## Uses

The LABPOX LV provides excellent results for the following applications:

- + Aesthetic metallic or clear systems for residential and commercial uses
- + Office buildings
- + Retail stores
- + Public facilities including hospitals and schools
- + Pharmaceutical companies

## Advantages

- + Ultra-low viscosity provides great flow for metallic applications
- + Easy application with one of the longest pot life and working time of the industry (90-100 minutes)
- + Environment friendly (100% solids, VOC-free and no solvent)
- + Virtually odor free
- + Potential for LEED eligibility
- + Superior mechanical and chemical properties
- + Good elongation and excellent abrasion resistance
- + High resistance to amine blush and contamination (fisheyes)
- + Excellent defoaming even at thicker levels
- + Superior mechanical and chemical properties
- + Impermeability / low moisture sensitivity
- + High density of the product prevents dirt penetration resulting in low maintenance post application

## Application Data

Mix Ratio	2A:1B	
Packaging	3 US gallon kits (3 x 3.78L)	
Color	Clear	
Solids Coverage / US GAL	<u>Mils</u>	<u>Sq. Ft.</u>
	8	200
	10	160
	12	133
	30	54
	40	40
	50	32
Shelf Life	One year, in original unopened factory pails under normal storage conditions	
Substrate temp.	Min 16°C / 61°F, Max 30°C / 86°F	
Cure Time		
Working Time	90-100 min	Min 16°C / 61°F, Max 30°C / 86°F
Tack Free	14 hours	Min 16°C / 61°F, Max 30°C / 86°F
Recoat Time	14-24 hours	Min 16°C / 61°F, Max 30°C / 86°F
Dry Through	24 hours	Min 16°C / 61°F, Max 30°C / 86°F
Foot Traffic	36 hours	Min 16°C / 61°F, Max 30°C / 86°F
Light Traffic	48 hours	Min 16°C / 61°F, Max 30°C / 86°F

## Technical Properties

Hardness	ASTM D2240	80	Shore D
Viscosity	Clear	300 +/-50	cps
Solids Content	100%		
VOC Content		8,69	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 could 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



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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 depending on the application. Ensure the surface is free of contaminants, and the pores are open to allow the product to penetrate.

If the product is applied over an existing LABPOX flooring system that has been cured for a period longer than 24 hours, it should be sanded with a proper floor machine. A mechanical bond to a sanded surface is required and the pores of the existing coating must be opened for better adhesion. Vacuum dust and properly wipe the surface with alcohol or solvent prior applying the LABPOX LV. The alcohol or solvent must be completely evaporated before applying the product. This preparation is necessary to ensure proper adhesion. Conduct adhesion tests if there is a doubt about surface preparation.

When installing a broadcast decorative system, after appropriate hardness has been reached, the base coat in which the aggregates are broadcasted should be carefully scraped and swept and then thoroughly vacuum cleaned to remove any remaining residues prior applying the topcoat. Contact us for more details on how to use the product with broadcast systems.

## Mixing

Before final mixing, pre-mix part A at low speed using a Jiffy® or an Exomixer® mixer blade. If a metallic pigment system is being considered, it is imperative to read the LABTEC Metallic Pigments data sheet for mixing times as well as installation advice. The LABPOX LV is not compatible with the LABTEC Universal Pigment Pods.

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 air entrapment. 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 scrape 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.

## 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.

The LABPOX LV is self-priming. When used as a base coat, apply with a squeegee in thin coat without back rolling to seal properly the surface, this will help reduce the creation of pin holes. If there is a significant presence of pinholes after applying the first coat due to the porosity of the concrete, sand and plug the pinholes with epoxy gel.

For the second coat, repeat the same steps and back roll the product. For aesthetic metallic or clear systems, we recommend a thickness level between 30 and 50 mils for the topcoat. It is recommended to apply the product in a multi-directional (north-south, east-west) motion to ensure proper coating thickness. The LABTEC METALLIC PIGMENTS system requires specific installation steps (Refer to the LABTEC METALLIC PIGMENTS technical data sheet or contact us for additional details).

For better stain and chemical resistance, we strongly recommend the usage of a AQUALAB PUR, LABFAST or LABSHIELD product over the LABPOX LV or over any epoxy product other than a Novolac epoxy. In addition to the superior chemical resistance and cleanability, the matte version of the AQUALAB PUR MATTE possesses a unique characteristic which is to make the scratches less apparent. The AQUALAB PUR, LABFAST or LABSHIELD products also provide additional UV protection that will significantly slow the yellowing of the epoxy.

We recommend the LABTEC vinyl chips when installing a flake system. Proper testing should be conducted prior application.

## Recoat

Do not recoat without sanding if last coating of the product has been applied for more than 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 at must be below 4%



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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 LABPOX LV is not compatible with the LABTEC Universal Pigment Pods. 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. 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.

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.

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

## Labsurface

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## Available Colors

Clear, Metallic Colors

