



LABPOX MVB FAST

100% Solids, High Performance Vapor-Barrier Epoxy

Description

LABPOX MVB FAST is a 100% solids two-component vapor moisture epoxy coating, no VOCs and practically odorless. LABPOX MVB FAST acts as a moisture barrier for concrete floors with high residual humidity (up to 100%) as well as new concrete slabs installed within 28 days. LABPOX MVB FAST is used as a primer prior installing a complete epoxy or polyaspartic system. The product can receive a subsequent layer of coating in as little as four 3h30min, thus enabling very rapid commissioning. The product has been formulated with state-of-the-art components and one of the most efficient vapor barrier system in the industry.

Uses

The LABPOX MVB FAST provides excellent resistance for the most demanding applications:

- + Industrial, commercial and residential uses
- + Metallic systems
- + Manufacturing facilities
- + Warehouses
- + Commercial centers
- + Office buildings
- + Retail stores
- + Parking garages
- + Food/beverage processing and preparation plants
- + Public facilities including hospitals and schools
- + Pharmaceutical companies

Advantages

- + Environmentally friendly, 100% solid, VOC and solvent free
- + Virtually no odor
- + Quick curing
- + Suitable for wet concrete substrates
- + Effective membrane against residual moisture up to 100%
- + High degree of permeability
- + Ideal for concrete slabs with less than 28 days of curing
- + Potential for LEED eligibility
- + Can be used in combination with epoxy or polyaspartic floor systems
- + Low viscosity, easy to apply
- + Indoor and outdoor use

Application Data

Mix Ratio	2.4A:1B	
Packaging	2.5 US Gal Kits 1 x 6.67L (A) et 1 x 2.78L (B)	
Color	Clear, grey, tan, black and white	
Solids Coverage / US GAL	<u>Mils</u>	<u>ft²</u>
	10	160
	12	133
	14	114
	Recommended 16	100
	18	89
	20	80
Shelf Life	One year, in original unopened factory pails under normal storage conditions	
Application temp.	Min 16°C, Max 30°C	
Cure Time		
Working time	20 min	21°C
Tack free	3-3:30 hours	21°C
Hard dry	14 hours	21°C
Recoat	3-24 hours	21°C

Technical Properties

Hardness, Shore D	ASTM D2240	80
Permeability (dry concrete)	ASTM E96	10 mils : < 0.1 perms
Permeability (up to 100% residual humidity)	ASTM E96	16 mils : < 0.1 perms
Viscosity	1050 +/-50	1050 +/-50 cps
	Clear	Colors
Solids Content	100%	



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Surface Preparation

Concrete should be clean, dry and free of grease, oil, paint, curing agents or any contaminants that may inhibit proper adhesion. Proper testing procedures should be practiced with regards to soil acidity. Take a pH reading to ensure concrete is neutral (a reading between 5 and 9 is acceptable).

Surface must be shot blasted or prepared with an equivalent mechanical means in line with CSP-2 or more. Ideally CSP-3. Ensure the surface is free of contaminants, and the pores are open to allow the product to penetrate.

When using a broadcast decorative system, the base coat with the flakes should be scraped and cleaned after appropriate hardness is reached prior applying the top coat. Contact us for more details on how to use the product with broadcast systems.

Mixing

Before final mixing, pre-mix parts A at low speed. Special attention must be paid to colored versions of the product since pigments may have separated from the rest of the formulation during storage. Mixing should be done until the color is uniform.

Then, mix 2.4 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 three minutes using a low speed drill (300-450 rpm) to minimize the entrapping of air. It is recommended to activate the mixer in the reverse mode after the first 90 seconds in order 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.

Application

The LABPOX MVB FAST has been specifically designed to adhere to substrates with a residual humidity of up to 100% and new concrete slabs having been installed within 28 days. Note that very high levels of residual humidity may indicate a hydrostatic pressure problem. Hydrostatic pressure is usually caused by a drainage failure or a water leak. Make sure that the causes of hydrostatic pressure are checked before installing the product.

Before application, make sure that the air and soil temperature is between 16-30oC. The product has been specifically designed to adhere to concrete surfaces. The ambient relative humidity should ideally be below 85%. Make sure the concrete surface is completely dry at the time of installation. The surface humidity must be

controlled for more than 3h30min, the time required for the product to harden sufficiently.

If floor repairs are to be made, use cementitious repair products which can dry adequately in the presence of moisture or use LABPOX MVB FAST mixed with silica.

The vapor barrier performance of the product is directly proportional to the thickness of the coating. The higher the thickness, the higher the vapor barrier protection. It is also important that the film thickness is uniform over the entire floor. If the concrete absorbs the product more in specific areas and the application is not uniform, we recommend the application of two coats for better performance.

If the installation of a single coat is envisaged, in order to obtain the most uniform installation possible, spread the product using a squeegee then back roll the product after 5-10 minutes. A coat of 16 mils is recommended.

If a two-coat system is being considered, we recommend a thickness of 5-8 mils for the first layer and 12-16 mils for the second. When the surface has been properly prepared, apply with a squeegee in thin coat without back rolling to seal properly the surface, this will help reduce the creation of pin holes. For the second coat, repeat the same steps and back roll the product. It is recommended to apply the product in a multi-directional (north-south, east-west) motion to ensure proper coating thickness. If there is a significant presence of pinholes after applying the first coat due to the porosity of the concrete, sandblast and plug the pinholes with epoxy gel.

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



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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.

LABPOX products chemically adhere to LABPOX MVB FAST without sanding within a 24- hour window. LABFAST and LABSHIELD systems do not chemically adhere to LABPOX MVB FAST and adhesion is suboptimal even when the product is sanded. For LABFAST and LABSHIELD systems, it is therefore necessary to use aggregates (flakes or silica sand in full saturation) in order to obtain good adhesion. Contact LABSURFACE to obtain more details on systems including our recommendations if an external system is envisaged.

Clean Up

Excess material (A and B) should be mixed together and allowed to cure. Cured product may be disposed of without restriction. Uncured material should be stored in a suitable and sealed container and may be disposed in accordance with provincial and federal regulations.

Limitations

Requires a dry substrate. The surface humidity must be controlled for more than 3h30min, the time required for the product to harden sufficiently. If this applies, make sure that the causes of hydrostatic pressure are checked before installing the product. 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. Not suited for exterior applications. Temperature will also impact curing time. Curing time may extend significantly at low temperature levels and the surface may be affected. Do not clean the finished surface during the week following installation. Keeping the product stored at room temperature will make the application easier and dry times shorter.

Labsurface stands behind the quality of its products. However, Labsurface cannot guarantee final 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.

In order 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.

Available Colors

Clear, Grey, Tan, Black, White

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

Labsurface

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