Technical Data Sheet

LABFAST BASIX

Best Value, High Performance and Long Working Time Polyaspartic

Description

The LABFAST BASIX is a two-component (1A:1B), non-yellowing, polyaspartic floor coating system. The LABFAST BASIX can be used as a clear top coat and as a colored base coat using the LABTEC Universal Pigment Pods. The product offers an attractive combination of long working time (25 minutes*) and short curing (tack free of 60 minutes or lower*) allowing the installation of the floor system in a single day. The product displays excellent curing capability even at very low temperature levels. This product offers superior mechanical and chemical properties and is low maintenance. It also displays a superior aesthetic finish and excellent UV stability which makes it ideal for interior and exterior applications. Two- or three-coat systems can be considered.

* Depends on R.H. and temperature levels

Uses

The chemical and mechanical properties of LABFAST BASIX provide excellent results for several applications. Note that the smell may not be suitable for all applications depending on tolerance and ventilation.

+ Garage floors
+ Other residential applications
+ Commercial centers
+ Office buildings
+ Retail stores
+ Manufacturing facilities
+ Public facilities including hospitals and schools
+ Other commercial uses

Advantages

+ Best Value in the LABFAST Series
+ Non-yellowing
+ Excellent impact and abrasion resistance
+ Easy to use 1A:1B system
+ High solids content at ~80%
+ Clear top coat, can also be tinted using LABTEC Universal Pigment Pods for base coat
+ Possibility to install base coat and top coat in a single workday
+ Cures quickly
+ Ideal for exterior applications
+ Long working time of approx. 25 minutes
+ Possible to install two- or three-coat systems
+ Easy to install due to the very low viscosity of the product
+ Very long recoat window and pot life
+ Excellent chemical and mechanical resistance
+ Impermeability / low moisture sensitivity
+ Superior gloss finish
+ High density of the product prevents dirt penetration resulting in low maintenance

Application Data

Mix Ratio	1A:1B		
Packaging	2 US gallon kits (2 x 3.78L)		
Color	Clear		
Wet Coverage / US GAL	Mils	Sq. Ft.	
	4	400	
	5	320	
	6	267	
	7	229	
	8	200	
	9	178	
	10	160	
	11	145	
	12	133	
	13	123	
	14	114	
	15	107	
	16	100	
Shelf Life	Six months, in original unopened factory pails under normal storage conditions		
Application temp.	Min <0°C / 32°F , Max 30°C / 86°F		
Cure Time [1]			
Working Time	25	min	22°C / 72°F and 30% Rel. Hum.
Tack Free	60	min	22°C / 72°F and 30% Rel. Hum.
Recoat Time	60 min-24 hours		22°C / 72°F and 30% Rel. Hum.
Dry Through	5	hours	22°C / 72°F and 30% Rel. Hum.
Foot Traffic	12	hours	22°C / 72°F and 30% Rel. Hum.
Light Traffic	24	hours	22°C / 72°F and 30% Rel. Hum.
Full cure	2	weeks	22°C / 72°F and 30% Rel. Hum.

[1] Curing times will be faster at higher R.H.and temperature levels

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Technical Properties

Hardness	ASTM D2240	70	Shore D
Tensile Strength	ASTM D412	>3500, <5000	psi
DE 500 hr	ASTM 3424	<2.0	
Pull-Off Test [1]		≈3	Mpa
Abrasion (1000 cycles)	ASTM D4060	<45	(mg loss)
Gardner Impact (Dir/Rev)		>140	lbs
Solids Content		80%	
Elongation	ASTM D412	>51%, <55%	
Viscosity		200 +/-50	cps
VOC Content		208,78	g/l

[1] After six months

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 system (refer to the LABPOX MVB technical data sheet for application 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 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 to an existing LABFAST/LABSHIELD flake flooring system that has been cured for more than 24 hours (at 22°C / 72°F), the floor surface should be sanded properly until a matte appearance is reached above and between the flakes. To achieve this result, we recommend the use of a sander equipped with a sponge pad which will follow the profile of the surface and allow the sandpaper to reach the low points between the flakes. It is necessary to sand in a multidirectional way. Repeat until a matte finish is achieved on the entire floor. It is also necessary to use xylene to remove all dust after sanding and to soften the existing layer so that it can bond with the new layer. The use of xylene for this task is mandatory as it will soften the previous coat for better adhesion. The xylene must be completely evaporated before applying the next coat.

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 LABFAST BASIX. 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.

Once cured, the base coat with the flakes should be scraped and cleaned after appropriate hardness is reached prior applying the top coat.

Mixing

Clear Top Coat

Before final mixing, pre-mix part A individually at low speed.

Then, mix one part 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 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.

Colored Base Coat

Use one LABTEC Universal Pigment Pod per gallon of LABFAST BASIX Part A. Before final mixing, pre-mix part A at low speed with the LABTEC Universal Pigment Pod. Mix until the color is perfectly uniform using a mixer at low speed.

Then, one part of A and one part of B together at low speed in a separate container. There is no need to rebalance the mixing ratios to compensate for the volume of part A that will exceed its part B counterpart once the pod has been poured into the part A. 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 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 scrap sides and bottom of mixing container so no unmixed material remains. Only mix the quantity of product required depending on the pot life and the working time required.

Application

Best results will be obtained between 0°C / 32°F and 30°C / 86°F, with a relative humidity of less than 80%. This product will also cure at temperatures well below 0°C / 32°F. If a heated floor is installed, ensure that the system is turned off during application and for the full duration of the cure. The product has been especially designed to adhere to concrete surfaces.

Once the surface has been properly prepared, squeegee 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.

For a two-coat flake system, a thickness of 8-13 mils per coat is recommended. For a three-coat system, we recommend 4-9 mils per coat for the first base coat and the second base coat. Then flake to rejection the second base coat and apply the top coat at 8-13 mils.

We recommend the LABTEC vinyl chips when installing a flake system. Do not exceed a thickness of 30 mils for the entire system as solvent entrapment or lingering odors may occur following the installation. It is important that the color of the base coat matches with the blend of the flakes used. With that regards, Labsurface has made recommendations in the LABTEC Vinyl Flakes section of this document.

It is also possible to use the LABFAST BASIX as a protective coat over epoxy. In addition to the superior chemical resistance and cleanability, the LABFAST BASIX also provides additional UV protection that will significantly slow the yellowing of epoxy over time. It will also provide a high gloss finish. When used as a protective layer on epoxy, a thickness of 10 mils is recommended.

Proper tests should be conducted prior application. Contact a Labsurface representative for additional information.

Recoat

A subsequent coat can be installed when the initial coat has reached the dry through point. If the initial coat is dry to the touch but has not reached its dry through point, and becomes stained, the stains will become uncleanable. Do not apply a second coat without sanding the first coat if the latter was installed more than 24 hours ago.

If the product is applied to an existing LABFAST flooring system that has been cured for more than 24 hours (at 22°C / 72°F), the floor surface should be sanded properly until a matte appearance is reached above and between the flakes. To achieve this result, it is necessary to sand in a multidirectional way and on more than one occasion. It is also necessary to use xylene to remove all dust after sanding and to soften the existing layer so that it can bond with the new layer. The use of xylene for this task is mandatory. Make sure the solvent is completely evaporated and there are no residues. In case there are remaining residues, wipe the surface using a dry rag or swab.

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Limitations

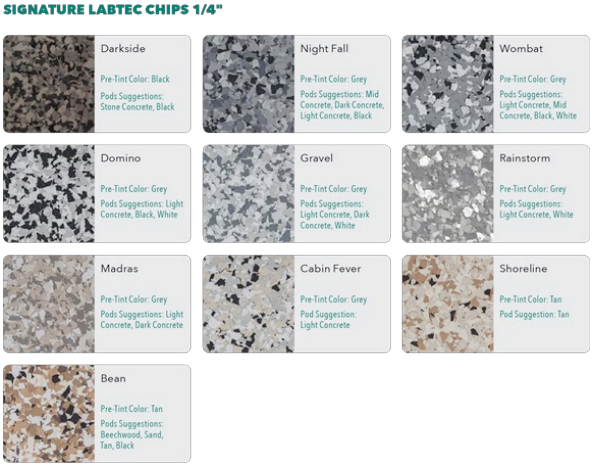
Requires a dry substrate. Moisture content of the substrate must be measured with a Tramex® CME / CMExpert at must be below 4% before applying the product. This product should not be applied to concrete substrates that show high levels of moisture/humidity unless a moisture a LABPOX MVB moisture mitigation system is used. Do not exceed a thickness of 30 mils for the entire system as solvent entrapment may occur above those levels. It is recommended to use 100% solids products and avoid solvent-based products for installations beyond those thickness levels. It is also recommended to do proper testing if a nonconventional installation is considered. Everything else being equal, thicker is the film, longer is the curing time. Drying time will be faster in a hot and/or humid environment. Conversely, the drying time will be longer in a cold and/or dry environment. Do not clean the finished surface during the week following installation. Keeping the product stored at room temperature.

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.

LABTEC Universal Pigment Pods

Standard Color Chart

LABTEC Vinyl Flakes



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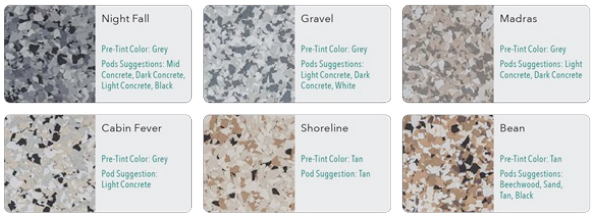
SIGNATURE LABTEC CHIPS 1/16"



MARBLE LABTEC CHIPS

TERRAZZO LABTEC CHIPS

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

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