



LABFAST LOW ODOR

High Performance Top Coat Polyaspartic, Low Viscosity

Description

The LABFAST LOW ODOR is a two-component (1:1) polyaspartic floor coating system with a very faint odor. The LABFAST LOW ODOR is used as a base coat (colored) and a clear topcoat using a common hardener. High solids versions (85 and 90%) are available as well as a prolonged working time version (+) and a fast cure version (-). The system provides a quick turnaround with very rapid curing time (tack free of approx. 45 minutes) allowing the installation 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. We recommend the utilization of the LABTEC vinyl chips in combination with LABFAST LOW ODOR products. Two- or three-coat systems can be considered (ask a Labsurface representative for additional details).

Uses

The chemical and mechanical properties of LABFAST LOW ODOR provide excellent results for a number of applications:

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

Advantages

- + Faint odor
- + High solids content, 85% and 90%
- + Excellent UV, non-yellowing and impact resistance
- + 1:1 system with common hardener for the base coat and topcoat
- + Possibility to install base coat and topcoat in a single workday
- + Cures quickly – recommended to obtain best curing at very low temperature levels (below zero Celsius)
- + (+) version offers longer working time of approx. 25 minutes
- + Possible to install two- or three-coat systems using a single product
- + Easy to install due to the very low viscosity of the product
- + Possible to install 2- or 3-coat systems
- + 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



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Application Data

Mix Ratio	1A:1B		
Packaging	2 Gallon Kits (2 x 3.78L) 10 US gallon kits (2 x 18.9L)		
Color	Clear or colored		
Wet Coverage / US GAL	<u>Mils</u>	<u>Sq. Ft.</u>	
	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 sub 0°C, Max 30°C		
Cure Time ⁽¹⁾	(-)	(+)	
Working Time	15	25	min 22°C and 55% rel. hum
Tack Free	45	120	min 22°C and 55% rel. hum
Recoat Time	45	120	min 22°C and 55% rel. hum
Hard Dry	2	6	hours 22°C and 55% rel. hum
Foot Traffic	24	24	hours 22°C and 55% rel. hum
Light Traffic	48	48	hours 22°C and 55% rel. hum
Full cure	2	2	weeks 22°C and 50% rel. hum

⁽¹⁾ LABFAST LOW ODOR 85

Technical Properties

Hardness, Shore D	ASTM D2240	>65	
Tensile Strength	ASTM D412	5500	psi
DE 500 hr	ASTM 3424	<2.0	
Pull-Off Test		≈ 3	Mpa
Abrasion (1000 cycles) ⁽³⁾	ASTM D4060	30	(mg loss)
Gardner Impact (Dir/Rev)		>140	lbs
Solids Content		85% and 90%	
Elongation ⁽³⁾	ASTM D412	51	%
Viscosity		Clear	Color
	LF80	200 +/- 50	200 +/- 50 cps
	LF85	300 +/- 50	300 +/- 50 cps
	LF90	500 +/- 50	NA cps

⁽³⁾ LABFAST LO 85 -

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.

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 calcium chloride test to measure moisture vapor transmission. Readings of 3.5 lbs/1000 sq. ft. during a 24-hour period or less are acceptable for applying coatings. Higher results should receive the LABPOX MVB moisture mitigation system (refer to the LABPOX MVB technical data sheet for installation details).

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.

If the product is applied over epoxy, it is imperative to read the epoxy manufacturer data sheet on recoat properties for proper adhesion. Epoxy 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. Wiping properly prepared surface with alcohol will ensure no loose dust particles from the sanding process are present.



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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 topcoat. Contact us for more details on how to use the product with broadcast systems.

Mixing

Before final mixing, pre-mix parts A and B individually 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 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 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

Best results will be obtained between -10°C and 30°C and with a relative humidity of less than 80%. This product will also cure at temperatures well below -10°C Celsius.

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 achieve a uniform product coating.

LABFAST LOW ODOR is self priming and is tack free after approx. 45 minutes for the (-) version under normal conditions (120 minutes for the (+) version). The product can be installed in a two- or three-coat system. We recommend the LABTEC vinyl chips when installing a flake system. We do not recommend installing more than 20-30 mils of the product for the entire system (see Limitations section for more details). Proper tests should be conducted prior application. Contact a Labsurface representative for additional details including coverage rates.

Recoat

Do not recoat without sanding if last coating of the product has been applied for more than 24 hours (at 22°C). 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. It is recommended to use an aggressive

solvent to eliminate all the dust after vacuuming and to soften the initial coat prior applying the additional coat. Labsurface recommends using xylene. 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.

Clean Up

Excess liquid A and B material 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.

Detailed Curing Data

	Solids	Working Time	Tack Free	Dry Through	Recoat Time
LABFAST 85 LO -	85%	15 min	45 min	2 h	45 min - 24 h
LABFAST 85 LO +	85%	25 min	2 h	6 h	2 h - 24 h
LABFAST 90 LO -	90%	15 min	45 min	2 h	45 min - 24 h
	Foot Traffic	Light Traffic	Full Cure	Shore D / 24h	Shore D / Final
LABFAST 85 LO -	24 h	48 h	2 weeks	30	70
LABFAST 85 LO +	24 h	48 h	2 weeks	10	70
LABFAST 90 LO -	24 h	48 h	2 weeks	50	70

Limitations

Requires a dry substrate. This product should not be applied to concrete substrates that show high levels of moisture vapor transmission (see "Surface Preparation" section) unless a moisture a LABPOX MVB moisture mitigation system is used. Although this product may be applied in a wide range of thickness, limitations may apply. It is recommended to use 100% solids products and avoid solvent based products for installations beyond normal thickness levels for concrete floor coating systems (beyond 20-30 mils). 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. This product may dry extremely fast in a high humidity environment. Temperature will also impact curing time. Curing time may extend significantly at very low temperature levels. 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.



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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

Others

- + Full color customization available
- + Contact us for additional details

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

Labsurface

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