Technical Data Sheet

LABTEC METALLIC PIGMENTS

Description

The LABTEC Metallic Pigments are special effect pigments composed of coated mica nanoparticles that create finishes with a unique aspect and a depth effect. The LABTEC Metallic Pigments are designed to be field blended with LABPOX 30 clear or LABPOX 40 UV clear, creating a pearlescent finish with a dramatic color effect through light interference and absorption.

The installation of a metallic epoxy system requires a focused approach to optimize the desired result. There is a great degree of color variance from one job to another which is why most of our recommendations are based on the technical and non-aesthetic aspects of the product. We recommend that you to test the clear metallic on different epoxy backgrounds (base coats) since the results can vary significantly depending on the color selected.

Uses

LABTEC Metallic Pigments can be used either with the LABPOX 30 clear or the LABPOX 40 UV clear.

+ Residential uses
+ Commercial uses
+ Office buildings
+ Retail stores
+ Garages
+ Other facilities

Advantages

+ One of the best UV resistance in the industry
+ Very easy to disperse
+ Unlimited color and effects possibilities
+ LABPOX 30 and LABPOX 40 UV are industrial grade epoxies which have been designed to be also ideally suited for metallic epoxy floors
+ Labsurface metallic epoxy systems are resistant to unwanted effect such as circles and fish eyes
+ Chemically stable and environment friendly powders

Application Data

Mix Ratio	1-2 pods (120 g) per 3 gallon kit of LABPOX 30 clear or LABPOX 40 UV clear depending on opacity and effect desired	
	Metallic Pigment	Epoxy Kit
	1-2 pods	3 US gallon kit (3 x 3.78L)
	5-10 pods	15 US gallon kit (3 x 18.9L)
Color	See Metallic Color Chart	
Packaging	1 pod (120g ≈ 4.23 oz)	
Shelf Life	One year, in original unopened factory pails under normal storage conditions	

Surface Preparation

Refer to the LABPOX 30, LABPOX 40 UV or LABPOX MVB FAST technical datasheets for details pertaining to surface preparation.

Mixing

Before starting to mix, make sure the ambient and the temperature of the surface to be coated is between 16 and 22 degrees Celsius. The warmer the surface to be covered, the greater the risk of unwanted circles appearing on the metal floor.

With a clean mixing tool, mix part A individually at low speed (300-450 rpm) for two minutes. Then add the LABTEC metallic pigments in part A. With a clean mixing tool, mix for two minutes or more, until a homogeneous mixture is obtained. **These premixing steps should be performed to minimize unwanted effects including circles or comet drags.**

In a clean container free of any external particles, combine two parts A to one part B. With a clean mixing tool, mix thoroughly for three minutes or more, until a completely homogeneous mixture is obtained. Use a low-speed drill type mixer (300-450 rpm) to minimize air entrapment in the product. 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.

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Application

- For metallic systems, the topcoat can be applied at thickness level between 30 and 50 mils.
- Everything being equal, the thicker the metallic system, especially the topcoat, best results will be. Therefore a 50 mils system is recommended.
    - Flawless surface.
    - Less risk to get comet drags.
- In the scenario where savings are of the essence and a 30 mils topcoat is selected, it is recommended to use two pods per 3 US gallon epoxy kit to get sufficient opacity.
- For metallic applications we recommend the following system:
    - Apply a thin colored base coat (4-16 mils of regular organic pigments) with a squeegee and a lint free roller.
    - Second layer of 30-50 mils clear topcoat mixed with the LABTEC Metallic Pigments.
    - Third layer comprised of two thin coats of AQUALAB PUR which will provide unequaled chemical resistance, stain resistance and minimal scratch appearance.
    - To maintain a glossy surface and get a superior chemical and stain resistance, use the LABFAST clear or the LABSHIELD ECO clear (10 mils) as a protective topcoat. If this option is chosen, keep in mind that although these products provide more abrasion resistance than epoxies, scratches will be as apparent than on a glossy epoxy.
- If there is a significant presence of pinholes after applying the base coat due to the porosity of the concrete, sand and plug the pinholes with epoxy gel.
- Spread the topcoat with a trowel (Magic Trowel) or proceed with a standard application by using a notched squeegee 18" and 1/8" serrations or pin rake and back roll with lint free roller to ensure even thickness.
- If you are considering a two-color metallic epoxy system, please be aware of the working times that the coatings allow. Your working time shall not exceed the 50-60 minutes as referenced in our technical data sheets under optimal conditions at 22 degrees Celsius. The negative effects from overextending the allowable working times may result in the presence of roll marks and / or holes left by your spikes.
- To get a cratered effect in your metallic epoxy system, you can spray denatured alcohol, xylene, or isopropyl alcohol.
- The usage of aerosols during curing can create unwanted circles.
- Refer to the technical data sheets of the LABPOX 30, LABPOX 40 UV, LABPOX MVB FAST, AQUALAB PUR, LABSHIELD ECO and LABFAST product series for information pertaining to the installation steps.

Limitations

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.

Available Colors

Metallic Color Chart

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

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