



Description

The MAJESTIC TOP FLOW is a two-component (2A:1B) epoxy system designed for tabletops, countertops and various artwork crafting applications which is VOC-free, 100% solids and is virtually odor free. The product is translucent and displays an excellent resistance to UV irradiation (excellent color retention over time). Best suited to protect or resurface several different surface types such as wood, metals, laminate (Formica), concrete and more. The product is easily cleanable. The MAJESTIC TOP FLOW is a self defoaming product. The use of a torch is not required.

Uses and Substrates

The MAJESTIC TOP FLOW provides excellent results for the most demanding applications:

- + River tables
- + Tabletop and countertop top coat
- + Casting top coat
- + Tabletop and countertop resurfacing
- + Furniture
- + Wood crafting
- + Art painting
- + Wood, metals, concrete, plastics, fiberglass, painting, granite, laminate (see Laminate/Formica Application section), Artwork, fabrics, etc.

Advantages

- + Offering one of best UV resistance in the industry for a self defoaming epoxy
- + Crystal clear, beautiful surface, auto defoaming
- + Environment and health friendly (100% solids, VOC-free and no solvent)
- + Food safe
- + Virtually odor free
- + Easy application with long pot life and working time (60 minutes)
- + Ideal for clear tabletop or metallic epoxy countertop resurfacing systems
- + Good elongation and excellent abrasion resistance
- + High resistance to amine blush and contamination (fish eyes)
- + Very good air release qualities
- + 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	1.5 US gallon kit 3 US gallon kit
Color	Clear, Metallic Colors
Shelf Life	One year, in original unopened factory pails under normal storage conditions.
Substrat temp	Min 16°C / 61°F, Max 30°C / 86°F
Cure Time	22°C / 72°F and 30% Rel. Hum.
Working Time	60 min
Tack Free	9 h
Recoat Time	9 - 24 h
Dry Through	13 h

Technical Properties

Hardness ASTM D2240	80 Shore D
Elongation ASTM D412	7%
Tensile Stress ASTM D412	8000 PSI
Solids Content	100%
DE 500 hr ASTM 3424	7
Viscosity	Clear 800 +/- 50 cps
VOC Content	9 g/l

Surface Preparation

Surface should be clean, dry and free of grease, oil, paint, curing agents or any contaminants that may inhibit proper adhesion. Ensure the surface is free of contaminants, and the pores are open to allow the product to penetrate. To open the pores of a substrate it must be sanded prior installation, except for encapsulation applications. When applying on non-conventional substrates, proper adhesion and compatibility tests must be performed.

If the product is applied over an existing epoxy flooring system that has been cured for a period longer than 24 hours, it should be sanded with a proper equipment. 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 prior applying the MAJESTIC TOP FLOW. Conduct adhesion tests if there is a doubt about surface preparation.



Mixing - Clear Topcoat No Metallic Pigments

Pot life decreases if a larger amount of material is mixed at the same time. Pot life also decreases if ambient temperature is high. Thorough mixing is required until there is no more cloudiness when looking closely at the mix.

With a clean mixing tool, pre-mix part A individually in its original container at low speed (maximum 300 rpm) for two minutes.

Then, 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. The speed of the drill must not exceed 300 rpm to minimize the 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.

If the mixing is done by hand mixing needs to be done for 4-5 minutes for the part A alone and for both A and B together. When you mix by hand, never mix more than 0,5 gallon at a time, ideally mix one quart at a time. Mixing quantities can be larger for experienced users. Mixing also needs to be completed until there is no more cloudiness in the mix. When pouring the material, never scrape the sides of the mixing container where there is unmixed material. Unmixed material will create soft spot on your work piece.

Mixing - Topcoat with Metallic Pigments

Read the Mixing - Clear Topcoat No Metallic Pigments Section first.

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 in the film. We recommend the use of a low-speed drill for best results. With a clean mixing tool, mix part A individually at low speed (maximum 300 rpm) for two minutes. Then add the MAJESTIC metallic pigments in part A. With a clean mixing tool, mix at LOW SPEED (maximum 300 rpm) for two minutes or more. These pre-mixing 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 at LOW SPEED (maximum 300 rpm) for three minutes or more, until a completely homogeneous mixture is obtained. Use a low-speed drill type mixer (maxi-

mum 300 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 scrape 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.

IMPORTANT: Do not exceed the recommended mixing speed established at 300 rpm to reduce air entrapment to the minimum and avoid micro bubbles.

Seal the Pores

We recommend using the MAJESTIC TOP FLOW or the MAJESTIC BONDING PRIMER to seal the pores of the substrate. Proper sealing is necessary to ensure that the next coat (the flood coat) will be free of bubbles. The primer coat can be applied with a brush or a roller. It needs to be applied in a thin coat. The flood coat can be applied when the primer coat (the coat used to seal the pores) is past its tack free point. If the primer coat has been applied more than 24 hours, it is recommended to sand the primer coat prior applying the flood coat.

Applying the Topcoat

The topcoat can be applied using a foam roller or a squeegee. Its transparency and viscosity allow pouring up to 1/8" and provides a smooth, crystal clear, bubble-free surface ideal for wood crafting, art, and hobby applications. During installation, avoid excessive handling of the product to limit the entrapment of air in the film. Air entrapment can affect the appearance of the surface during the curing process. To obtain depth and a smooth finish, it is recommended to apply a thick layer.

Laminate/Formica Application

Experienced users can use the MAJESTIC TOP FLOW on existing laminate (Formica) countertops. A variety of colors can be used, and marble-like effects can be achieved with the use of the MAJESTIC Metallic Pigments. Before applying the product on a laminate countertop, the existing countertop needs to be primed with the MAJESTIC BONDING PRIMER. Please refer to the MAJESTIC BONDING PRIMER Technical Datasheet for installation details.

Recoat

Recoat without sanding if the prior coat has been applied within a window of 9 hours and 24 hours. Sanding is required if the last coat of the product has been applied for more than 24 hours. The 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. Dust must be wiped out prior applying the next coat.



Square Footage

To calculate the square footage that will cover 1 US Gallon (3.78L) of material depending on the thickness, divide the number 1604 by the thickness sought in mils. One mil equals 1/1000 of an inch. For instance, if the thickness sought is 1/8 inch, the calculation is 1604 divided by 125 mils (1000 x 1/8) which equals to 12.8 square feet per gallon.

Clean Up

Denatured alcohol is best suited for cleaning. 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 / state/ federal regulations.

IMPORTANT Limitations

Cannot be used for exterior applications even under a shaded area. When exposed to sun and weather changes to product will yellow faster and the surface will turn whitish. The film will also lose its mechanical and chemical resistance properties. Requires a dry substrate. This product should not be applied to substrates that show high levels of moisture/humidity. Although this product may be applied in a wide range of thickness, limitations may apply when curing time is taken into consideration. Everything else being equal, thicker is the film, quicker is the curing time. Drying time and pot life will be reduced in a hot environment. The drying time and the pot life will be longer in a cold environment as opposed to a hot environment. Never apply epoxy with a substrate and ambient temperature below 16 degrees Celsius. When applying on non-conventional substrates, proper adhesion and compatibility tests must be performed. 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.

IMPORTANT: Do not exceed the recommended mixing speed established at 300 rpm to reduce air entrapment to the minimum and avoid micro bubbles.

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. Customers 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.

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

Available Colors

Clear, Metallic Colors

Labsurface

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