



MTB-2209 Table Top Epoxy Resin Coating



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Shenzhen Meitaibang Chemical Co.,Ltd

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MTB-2209 Table Top Epoxy Resin Coating

MTB-2209 UV Stable Crystal Clear Table Top System is a high performance two component Clear epoxy system designed for Table Tops, Bars, Wood finishes, See-Through Encapsulations, Artwork, and other applications requiring a clear, strong, plastic coating specifically designed to resist Yellowing caused by the sun and other Ultra Violet light sources. The material has an easy to use 1 to 1 by volume mix ratio, maintains its integrity over sharp corners, and it has excellent air release qualities and a relatively fast set time for an epoxy coating.

Features&Advantages

- 100% Solids,Non-toxic,Voc Free,Solvent Free
- Self Leveling, High Gloss with ultra-clear finish
- U.V. Resistant Formula
- Excellent Air Release
- Excellent Color Stability
- Improved Impact Strength
- Improved Surface Appearance
- Early Development of Physical and Performance Properties
- Produces a Tough, High Gloss, Water Resistant Coating
- Eliminates Craters, Crawling and Fish Eyes
- Blush Resistant

Seal Coat Stage

The seal coat is designed to penetrate and cover a porous surface. Some very aged and kiln dried porous woods (old barn wood, knotty wood, wood with cracks and holes) may need multiple seal coats to prevent air from escaping them and creating bubbles in the flood coat. It is not uncommon for as many as 3 seal coats to be used on aged and kiln dried woods.

Flood Coat Stage

Each flood coat self-levels at approximately 1/8" thick. If depths thicker than 1/8" are desired multiple coats are necessary.

Bar Rails and Edges

The flood coat can be allowed to run over the sides which will create a coating on the vertical edges. These vertical edges will not be as thick as the top surfaces so you must do your best with a brush to keep the material even.

Underneath Edge

Drips will form underneath the bar-rail or edge, these drips can be sanded off once the epoxy has cured. If you catch the epoxy at just the right moment in the curing process cut or scrape the drips off as they will still be soft.

Coverage Estimate Chart (Square feet)

Kit Size	1/16"Thick	1/8"Thick	1/4"Thick
16oz Kit	7Sq.ft	3Sq.ft	1.5Sq.ft
32oz Kit	14Sq.ft	6Sq.ftoz	3Sq.ft
1Gallon Kit	56Sq.ft	24Sq.ft	12Sq.ft
2Gallons Kit	112Sq.ft	48Sq.ft	24Sq.ft

Technical Data Sheet

Item	Epoxy Resin(A)	Epoxy Hardener(B)
Appearance	Liquid	Liquid
Color	Transparent	Transparency
Density (g/m3)	1.08+0.05	0.96+0.03
Viscosity @25 (mpa.s)	1800+200	280
Mixed Viscosity @25 (mpa.s)	550±50mPa.S	
Test by Brookfield DV2TRV @25 °C	Max Mixed Viscosity is 800mPa•s	
Mix Ratio	1:1 by Volume&Weight	
Hardness (Shored)	70-75	
Operation Time	60mins±15mins@25°C, for 100g	
Curing Time	8-10hrs@25°C ; 6-8hrs@35°C ; 24hrs,Dry Completely	
Shelf Life	12months	
Package	16oz Kit/32oz Kit/1gallon/2Gallons Kit/20kgs Kit accept OEM&ODM	



A:B=1:1,16OZ Kit



A:B=1:1,32OZ Kit



A:B=1:1,1Gallons Kit



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Large areas, tables & bar tops often require special application procedures when applying MTB-2209. The following information and tips will help you achieve professional results. Familiarize yourself with the following procedures by practicing on a small sample first.

Required tools:

1. Measuring cup & straight sided, flat bottom disposable paper or plastic pail. Mixing container must be 50% larger than mix to allow for an adequate area for mixing. Do not mix in a wax coated container, as the wax coating may break free contaminating the mixture.
2. Stirring paddle must have a straight edge, such as a paint paddle, to allow user to constantly scrape sides and bottom of mixing container.
3. Plastic spatula, cardboard or business cards work well to help spread MTB-2209 over large areas.

Coating area conditions:

1. A clean, dry and dust free room is a must!
2. Humidity: All polymer compounds react to high humidity. Using MTB-2209 in a room where humidity is below 50% will give best results. High humidity can cause an oily looking film on the finished surface that can be repaired by recoating in a room at the correct humidity. Placing an inexpensive weather set in your coating room will help you with knowing room temperature and humidity. The lower the humidity, the faster and harder the cure. If high humidity is a problem, the use of a dehumidifier in your coating room will help remove moisture in the air.
3. For best results, coat at temperatures between 70° to 80° F. Higher room temperatures after pouring will help to speed up cure rate as well as hardness. We do not recommend temperatures above 100° F. For optimum heat control, use a small electric heater. Do not use propane heaters since a byproduct of burning propane is moisture vapor.

Surface:

The surface to which MTB-2209 is applied to should be:

1. Dry and free from dust, dirt, oil, grease, etc.

2. Level

3. Elevated to allow the MTB-2209 to flow freely off the sides of the item to be coated. Use paper or plastic cups to elevate the item. Place cups 2" in from sides so excess fluid does not run under and glue the cups to work piece!

Sealing New Surfaces & Preparing Old:

New Wood Surface: Requires a thin seal coat of MTB-2209 prior to flood coating. Mix approximately 1/4 the amount you would use to flood coat. Spread thinly over entire surface then scrape off all excess with a piece of cardboard or plastic spatula. This puts a thin film down over air passages and seals them off. This thin seal coat will allow the air to escape freely while effectively sealing the wood surface. If a thick seal coat is applied, escaping air will be trapped and will result in a large number of bubbles that are difficult to remove, especially on Oak or Mahogany! Should this occur, do not attempt to remove the bubbles with a torch as this will heat up the wood surface resulting in the release of more bubbles. Instead, scrape off all excess MTB-2209 so that the bubbles can freely break on their own! Allow the seal coat to cure for 4 hours, then you are ready to flood coat. Note: Occasionally a second seal coat is required.

determine if this is necessary, check the first seal coat. The surface should have an overall shiny appearance to it. Dull spots are an indication that the surface is not effectively sealed. These dull spots must be sealed with a second seal coat. Note: **Due to the porous nature of Oak or Mahogany, a second seal coat is a must!**

Pictures, Prints, Puzzles, Fabric, etc.: Glue these items down with white glue that dries clear. Apply a generous amount of white glue to back of your picture, print, etc., then place on work surface. Using a brayer or squeegee, remove excess glue and air bubbles from under picture, print, etc. Using a foam brush or paint roller apply two seal coats of white glue over your work surface. Allow glue to dry between coats. **Do not use spray adhesives. Spray adhesives will not hold under MTB-2209.** Painted, Previously Finished Surfaces and Plastic Laminates: These surfaces do not require seal coats but must be sanded for adhesion, then cleaned prior to coating. Note: **All wax and polish must be removed from previously finished surfaces with wax remover.**

Large Wood Slabs & Preventing Warp: Moisture content of wood must be 15% or less to coat with MTB-2209. Once coated, seal underside of slab to prevent moisture from migrating in or out of wood. To check moisture content, use a moisture meter or drill small test holes into the backside of your wood slab. Check the wood shavings for moisture. The wood shavings must feel dry!

Table & Bar Top edges, etc. : Both the top and bottom square edges should be slightly rounded with sandpaper or with a router and "cove bit". The result of this will be a smooth professional looking edge requiring fewer coats of MTB-2209.

Application:

Before measuring MTB-2209, ensure that the resin & hardener bottles are slightly warm to the touch (70°F). If not, place both bottles in warm, not hot water for 5-to-10 minutes prior to using. As a result, the resin and hardener will measure easier and mix better with fewer bubbles

1. Measure the MTB-2209 in exact amounts by volume.

Do not guess at the proper ratio or just empty the two bottles into your mixing container. Unless you measure equal portions of resin and hardener, your ratio will very likely be inaccurate, resulting in a soft sticky coating! Determine the amount of fluid to be used by measuring the top and sides of your project. On average use 4 -to- 6 ounces of MTB-2209 per square foot. MTB-2209 will not level correctly if spread too thin!

2. Mix measured resin and hardener in a clean, straight sided, flat bottom container.

Stir until thoroughly blended. Scraping sides and bottom continually while mixing is a must! Mixing should be completed after 2 minutes of vigorous mixing. To ensure a thorough mix, have two mixing containers ready. Begin mixing in the first mixing container. After one minute of vigorous mixing, transfer contents into second container and continue vigorous mixing for two minutes. Improper mixing will result in soft or tacky spots that will not cure! We do not recommend mixing more than one gallon of fluid at a time.



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3. Pour, do not wait! Pour as soon as thoroughly mixed. Pour over surface in a circular pattern. Start close to the edge and work towards the center of your work. This will allow the MTB-2209 to level from the center out to the edges of your work surface. Help spread where necessary with a stiff piece of paper or plastic spatula. Be careful not to spread too thin resulting in a wavy surface. Use a helper for mixing and pouring large objects. One person can mix while the other pours the coating. Caution: If MTB-2209 is left in the mixing container, it will become hot and set up rapidly!

4. Working time with MTB-2209: If you pour immediately after mixing, you will have approximately 25 minutes of working time at 70° F, less time for warmer temperatures.

5. Removing Bubbles: Within 10 minutes of pouring, air bubbles created while mixing will rise to the surface and begin to break. Exhaling across the surface at this point will break bubbles. However, on large surfaces the use of a small propane torch is the easiest and most effective method of removing air bubbles. The reasons for this are that MTB-2209 contains no flammable solvents, and carbon dioxide rich exhaust gases from a propane flame effectively release trapped bubbles. With a moderate flame, pass the torch over the surface with a swift, even, sweeping motion. Never hold torch closer than 3 to 4 inches from surface. Sweep past the ends of your work so that the torch never stops on your fresh coating! Avoid over torching which may scorch the surface. Warm room temperatures will result in better bubble release.

Note: We do not recommend the use of a hair dryer for removing bubbles. Hair dryers will blow lint from the surrounding air onto your work! Caution: Although MTB-2209 contains no flammable solvents, the objects you are coating, as well as surrounding table covers, etc., may be flammable.

6. Cover your work: Use a plastic drop sheet to keep dust and lint particles off while MTB-2209 sets.

7. Flat straight edges: After a number of MTB-2209 coats, wide flat edges can become slightly wavy. Sand the wavy edge flat using 120 grit paper. Wipe edge clean and apply your final flood coat. Do not sand in your clean coating area.

8. Drips: Drips that have accumulated on the bottom edge can be removed by sanding after the MTB-2209 hardens. To easily remove drips, apply 2 wide plastic tape to back of project along edge prior to coating surface. Do not use masking tape. Press firmly to work out trapped air. Once surface is coated and cured, use a sanding block and sand through coating on bottom edge. Then peel tape off removing drips!

Surface Care: Furniture polish will prolong the life of the surface and remove smudges, etc. Heavy objects, when left for a period of time may leave impressions on the MTB-2209 surface. Once the objects are removed, the impressions will disappear in a few hours at normal room temperatures.

Satin Finish: MTB-2209 has cured for 72 hours, Pumice or Rottenstone polishing powder and a wet sponge or chalkboard eraser work well for "cutting" the surface gloss. Lightly wet the cured surface with water, a spray mister works well for this. Then sprinkle the surface with polishing powder. Apply a firm, slightly wet sponge or chalkboard eraser and move in small circles until the entire surface gloss has been removed. It is important to keep the surface area wet during this process. One can also use 400 grit paper with water to cut the surface gloss in the same fashion. Once a uniform dull sheen appears across the surface, wipe clean to remove all abrasive material. Allow the surface to dry, and then apply a Carnuba based automotive or floor type paste wax and buff with a soft cotton cloth. This added wax layer will help protect the surface and should be reapplied every six months or as required to maintain a rich satin appearance. Polishing powder can be purchased at your local paint or hardware store (paint dept.).

Trouble Shooting Guide!

1. Soft & Sticky Spots: These spots are the result of unmixed MTB-2209 that has been scraped from the mixing container. Cure: All soft, sticky material must be removed! Use a paint scraper or chisel, then wipe area clean with solvent and lint free cloth. Use the two-container mix method and re-pour entire area. Prevention: Pay closer attention to scraping sides and bottom of mixing container while mixing. For a thorough mix, double mix in two containers. Never scrape out last few drops!

2. Soft Tacky Surface: Is a result of improper measurements of resin and hardener. Cure: All soft tacky material must be removed! A paint scraper works well for this, then clean area with solvent and lint free cloth. Re-pour with properly measured and double mixed MTB-2209. Prevention: Do not guess at the proper ratio or just empty the two bottles into your mixing container. Use a proper measuring device and measure equal portions of resin and hardener.

3. Thick, frothy bubbles when mixing. This is a result of trying to mix cold MTB-2209. Prevention: Store MTB-2209 in warm area, or warm prior to using.

4. Cloudy Resin: Due to the purity of MTB-2209 resin, a clouding or settling of the resin may occur from storing in cold conditions. This is a normal process and does not affect the outcome of this product. Should this occur, simply set the resin container in hot tap water until clear. Allow to cool before using. Prevention: Store in warm area off cold floor.

5. Wavy, Uneven Surface: Is the result of spreading MTB-2209 too thin or over torching. Cure: Flood coat with enough MTB-2209 to properly cover areas.

6. Small Clear Lumps in surface: These lumps are often the result of reusing a brush that was previously used with MTB-2209. Although you may have attempted to clean all residues from your brush with solvent, a brush used with an epoxy coating can never be completely cleaned. If the brush is used again, remaining residue within the brush will often work free and travel into your fresh coating. This material usually goes undetected until the next day, when you notice small clear lumps in the surface. Cure: Sand surface, re-coat and use a new disposable brush.

