

# 1225

# E-BOND 1225 DECORATIVE RESIN

FOR PROFESSIONAL USE ONLY; NOT FOR SALE TO OR USE BY THE GENERAL PUBLIC

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1225 DECORATIVE RESIN

## DESCRIPTION

E BOND 1225 is a two component very clear Epoxy Resin system that cures to a thick, glossy finish in approximately 8 hours at 70° F. Usually two coats are required for the deep attractive finish. When correctly mixed the 1225 reaches essentially full strength and toughness in approximately 72 hours. This durable, resistant material has found a natural use as a heavy glazed finish for tabletops, bars tops, printed materials.

E-BOND 1225 DECORATIVE RESIN IS NOT RECOMMENDED FOR EXTERIOR USE.

## PREPARATION:

### SOME THINGS TO KNOW BEFORE USING E BOND 1225:

IT IS MOST IMPORTANT THAT BOTH RESIN AND HARDENER ARE THOROUGHLY "MIXED" TOGETHER IN A FLAT WALLED AND FLAT BOTTOMED CONTAINER USING A FLAT SIDED STIR STICK. SIDES AND BOTTOM OF CONTAINER MUST BE SCRAPPED WHILE MIXING. PRODUCT WILL NOT CURE PROPERLY AND MAY PRODUCE SOFT OR STICKY SPOTS IF MIXING DIRECTIONS ARE NOT CAREFULLY FOLLOWED (READ DIRECTIONS CAREFULLY).

E BOND 1225 is a reactive polymer compound. While in the liquid state both compounds are affected by temperature. Elevated temperatures will considerably thin the resin and hardener and rapidly reduce the working time. Cooler temperatures cause material to be substantially thicker, harder to mix, more difficult to remove air bubble and a much longer working time and set time.

E BOND 1225 when properly mixed and applied, cures to a thick, glossy coating in about 8 hours at 70 degrees F, and reaches approximate full strength and toughness in about 72 hours when cured in an environment of 72 degrees F or greater. This durable resilient material requires no polishing to produce a high gloss. Each coat may be applied one on the other by simply wiping the surface with alcohol prior to recoating

## LIQUID STORAGE:

For best results, both components should be stored at 70° to 75° F for at least 24 hours prior to us. Any open containers, should be protected from dust particles and is recommended that they should be properly sealed until required. The shelf life of these components is approximately 1 year. All polymer components react in some way to the presence of moisture. E BOND 1225 has been developed and formulated so that the reaction to humidity is minimized. It is recommended to use E BOND 1225 where humidity is under 50% to attain best results. As with any high technology finishing product you may experience surface imperfections due to the humidity or environmental changes.

## SURFACE

The approximate coverage to obtain a thick, glossy finish is approximately 25 square feet per gallon.

Coverage will vary according to surface and method of application. The surface to which E BOND 1225 is to be applied should be dry and free of dirt, dust, grease, wax or oil. It is particularly important to obtain wood that is as dry as possible. Most wood, tree trunks, etc., contain a high degree of moisture.

Excessive moisture in the wood can cause whiteness and other surface imperfections. Every effort should be made to remove as much moisture in the wood as possible and store in a very dry place.

The surface must be level. The surface should be off the work area approximately 2 inches to allow the coating to drip freely off the sides of the item being coated. Place plastic sheeting, visqueen, wax paper or multiple layers of newsprint underneath the item being coated to catch drips.

This self leveling quality of E BOND 1225 can be attained by using enough material to flood the surface. It is better to mix a little too much, rather than too little. Mix only as much E BOND 1225 as you can pour and spread within the working life of the product. Unmixed components should remain in the original containers. After pouring, you have approximately 25 to 40 minutes working time before E BOND 1225 begins to harden.

E BOND 1225 is noted for its' unusual clarity and hardness.

All Polymers react to lengthy exposure to ultra violet light, sun rays, etc. Consideration should be given to the types of finish used under E BOND 1225 DECORATIVE RESIN. Slight yellowness can occur with extended exposure to ultra violet light and sun light which can cause discoloration that would be more noticeable on white or light colored finishes. E-BOND 1225 is not recommended for outdoor use.

E BOND 1225 has a number of uses as a high quality glaze. It is impossible to evaluate all these uses. It is important that the user of this product determine the compatibility of this glaze to the existing coating, important papers, and other substrates prior to proceeding.

## **CREATIVE IDEAS**

**E-BOND 1225** can be applied over many different types of surfaces, such as properly cured paint, printed materials and over rough surfaces as well as smooth.

Some newspaper clippings or printed materials will become translucent if they are not sealed before coating. Mount them with white glue (4-parts glue to 1-part water). When the mounted clipping is dry, brush your white glue solution over the entire surface of the plaque and clipping. When thoroughly dry the sealed plaque can be prepared in the usual way. On important papers, test this technique first.

Many people wish to distress wood surface, which is a simple procedure of adding character or contour to a plain wood plaque in order to enhance the appearance of the finished product. Use a knife, file, circular sanding tool to make irregular shapes at the edges of your plaque. When you have shaped the edges to your satisfaction you might then highlight the color and the wood grain by torching the plaque. After torching use a wire brush to clean out the loose charred wood. Use a thin seal coat, mount your photos and other objects, etc., and then you are ready for coating with **E-BOND 1225**.

Burning raw wood accents, grains, etc., for a very pleasing finish. Excessive burning of wood will create charred spots. Moisture can cause white spots under the coating and undesirable imperfections.

## **BEFORE ATTEMPTING LARGE PROJECTS**

It is recommended you familiarize yourself with the handling properties of **E-BOND 1225**. Like any high technology finish, there are definite techniques that are adaptive for each particular use. These techniques must be learned. It is much the same idea as hanging a door. Very easy once you have hung 2 or 3 doors, but very difficult on your first attempt. It is recommended, before attempting large projects that a number of small ones be attempted to get the feel of applying **E-BOND 1225**. In most cases it is recommended that a helper be available to aid in mixing, particularly when coating larger objects.

When coating directly over an unprepared surface the wood must be as dry as possible. Most wood contains a high degree of moisture.

Porous woods or materials require a thin coat of **E-BOND 1225** prior to flood coating to prevent air from escaping from the wood into the fluid.

In this type of application you would mix approximately 3/4 or the amount that would be required for the flood coat.

This thin coat normally seals off air passages in the wood. In extremely porous materials sometimes, two (2) coats are required. Allow the seal coat to cure for at least 5 hours prior to flood coating the object.

If wooden objects are not sufficiently seal-coated prior to torching, the torching will cause the wood to "bleed" air into the fresh coat of **E-BOND 1225**; these bubbles are difficult to stop.

Remember this product reacts within itself. The approximate working time at 72° F for 1/2 gallon mix is anywhere from 15 to 18 minutes in the bucket. Once poured however, there would be substantially longer time to smooth out and spread. It is important to get the materials out of the bucket as rapidly as possible.

## **TOOLS REQUIRED**

Untreated paper tubs, stir sticks, rubber gloves. The mixing containers must have smooth, flat walls and a flat bottom. The stir stick must have a straight edge (like a paint paddle) to allow the user to scrape sides and bottom of mixing container thoroughly while mixing.

## **APPLICATION**

### **A. MEASURE** in the same graduated container:

EXACTLY 1 Part Resin then add to that  
EXACTLY 1 Part Hardener by volume.

### **B. MIX**

Mix the measured resin and hardener in a clean container. Container should have flat walls and a flat bottom. Stir until material is thoroughly blended. Mixing should be complete after 2 minutes of thorough blending.

The importance of through mixing and blending cannot be over-emphasized. The two components must be thoroughly mixed and mated. If you are mixing correctly, bubbles will be whipped into the mixture. Do not be concerned; this is usually a sign that you are mixing well. The bubbles can be easily removed later. **IMPROPER MIXING** can result in soft or sticky spots.

It is recommended to eliminate problems of improper mixing, that you use two mixing containers. Mix thoroughly in one container. After you feel it is thoroughly mixed, scrape all the material from one container to a second container. After material has been placed in a second clean container, thoroughly mix for additional 1 to 1 1/2 minutes.

With this double type mixing, any material that might not have been thoroughly mixed from from the sides or the bottom of the first container will be easily placed in the center of the mix of the second container and thus will receive thorough mixing at that time.

### **C. POUR DO NOT WAIT**

Pour as soon as thoroughly mixed. Carefully pour over the surface in an even pattern. Spread where necessary using your hand (make sure you have your gloves on) to help liquid flow together. **CAUTION:** If E BOND 1225 is left in mixing container for any period of time, it will become hot and set up rapidly.

#### D. REMOVING BUBBLES

After about 5 minutes, air bubbles created while stirring and during application rise to the surface. A propane torch may be used as an aid in removing bubbles from a freshly coated surface. Hold the torch about 6" away and sweep smoothly across the surface until bubbles are gone. Use a low flame. Do not over heat the surface, as this will substantially thin the coating creating craters, etc. This process may be repeated as often as necessary while the material is still liquid. NOTE: although heat will assist in breaking up the bubbles, it is the carbon dioxide that is created that breaks up the bubbles.

#### E. CURE

For the best results, coat at temperatures between 70° and 80° F. Although the ambient temperature might be in the 70° to 80° F range, please use caution when using metal inserts in a wood base. Unless the project has been conditioned for at least 6 or 8 hours in the 70 to 80 degree temperature, the wood or metal might retain a different temperature. Changes in temperature on the project surface can cause stress lines in the glaze. Curing time will vary with humidity and temperature. Humidity below 50% is recommended for proper hardness and clarity of the film.

	TEMPERATURE	DUST FREE	HARD CURE
CURE RATE	70°F	4 - 7 hours	72 hours
	80°F	3 - 6 hours	48 hours
	90°F	2 - 5 hours	36 hours

#### F. CLEAN UP

While liquid, the material can be cleaned up with alcohol. After it has cured, it can only be removed by long exposure to epoxy stripper, sanding or infrared paint peeler.

#### G. DRIPS

Excess E BOND 1225 will drip over sides of the surface as it is being poured. Drips will harden on the bottom of the surface during the curing process. Drips can be sanded off after E BOND 1225 is cured. A circular sander is recommended.

#### SURFACE CARE

An occasional coat of furniture polish will prolong the life of the surface and clean smudges, etc. Occasional washing as needed produces afresh look. If scratches occur that cannot be polished out, clean with acetone, then recoat with E BOND 1225. This additional coat will remove all surface blemishes. E BOND 1225 is heat resistant, however, it should not be intentionally subjected to high temperatures such as cigarettes, cooking utensils, etc. EBOND 1225 is water and alcohol proof. These characteristics coupled with outstanding moisture and chemical resistance makes 1225 an ideal coating for coffee tables, dining tables or where a high gloss finish is desired.

Objects, when left on the surface for a period of time, may leave impressions on the 1225 glazed surface (the coating is made tough, yet flexible so as not to be brittle and prone to shattering from impact). Impressions usually disappear in a few hours at normal 72 degrees to 75 degrees room temperature. The warmer the environment, the more quickly the impressions will appear under objects and, after objects are removed will disappear.

**CAUTION - For professional use only; not for sale to or use by the general public.** E-Bond's epoxies contain alkaline amines. Strong sensitizer; MAY CAUSE SKIN SENSITIZATION or allergic response ranging from a mild wheezing to a severe asthmatic type attack. Avoid contact with skin or eyes. IN CASE OF CONTACT immediately wash skin with soap and water. Flush eyes with water and obtain medical attention. Wear protective clothing, goggles, and barrier cream on all exposed skin

**LIMITED WARRANTY NOTICE:** E-BOND EPOXIES, INC warrants this product to be free from manufacturing defects and to meet the technical properties on the current Technical Data Guide, if used as directed within the shelf life of one (1) year from manufacture date. Satisfactory results depend not only on quality products but also upon many factors beyond our control. The purchaser must examine the product when received and promptly notify E-BOND EPOXIES, INC in writing of any nonconformity before the product is used and no later than 30 days after such non-conformity is first discovered. If E-BOND, in its sole discretion, determines that the product breached the above warranty, it will, in its sole discretion, replace the non-conforming product, refund the purchase price or issue a credit in the amount of the purchase price. This is the sole and exclusive remedy for breach of this warranty.

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