

# EPOXY EFFECTS

## EE 2:1 RESIN

### ADVANTAGES

- Excellent UV Protection
- 100% VOC FREE
- Virtually Odourless
- Self-Degassing
- Self-leveling
- Crystal Clear
- Antibacterial
- Scratch-Resistance

### PRODUCT DESCRIPTION

#### EPOXY EFFECTS 2:1 RESIN SYSTEM

Our Two-component Internal 2:1 Resin System was designed to deliver an advanced level of shine, clarity and depth and locks in optical qualities of natural wood and art. Used in a variety of applications such as : Counter Tops, Bar Tops , Furniture, Art Work and other applications requiring a strong, durable plastic coating.

Epoxy Effects 2:1 Resin is crystal-clear and has excellent UV resistance, scratch-resistance, water resistance, chemical resistance, mechanical properties. The resin can be poured up to 3mm deep and is self leveling allowing it to create an amazing gloss coat over existing surface or artwork.

Designed for ease of use our 2 to 1 mix ratio system maintains high integrity over corners and a relatively fast set time.

Thanks to the sophisticated system developed additives within the resin create excellent UV protection and help to expel trapped air.

### RECOMMENDED USE

- Tabletops & Countertops Embedment, Coating & Mica Pigment Designs
- Art Coating Artwork, Photographs & Creating Resin Art

## HOW TO USE

### BEFORE YOU BEGIN

It is important to read through the following information carefully to ensure the correct preparation and application of the resin to achieve a professional quality finish.

#### LEVEL

Ensure your piece is flat and level, our epoxy is a self-leveling compound otherwise the resin will run to the lowest point and create puddling or leave to little resin around the corners.

#### BUBBLES

Additives within our resin help to expel trapped air meaning its self-degassing but to expel any bubbles created by mixing or the pouring process can be easily popped by passing warm air over the surface of the resin with a Heat Gun or Blow Torch. Do not hold to close otherwise you risk creating ripples and dimples in the resin finish.

## SURFACE PREPARATION

The success of the epoxy application depends on how well it can adhere to the surface. The strength of the bond relies on the epoxy resin's ability to key into the surface. The following steps are crucial to primary and secondary bonding.

For best results make sure surface has been cleaned thoroughly, dried and sanded.

#### STEP 1 – CLEAN SURFACE

The surface must be free of any contaminants such as oil, grease or wax. If necessary clean contaminated surface with acetone, 91% isopropyl or appropriate cleaning agent. Wipe surface dry before solvent dries.

#### STEP 2 - ENSURE SURFACE IS DRY

To ensure the resin cures correctly the surface must be dry. When working with wood that is damp or been in a damp environment it will be necessary to dry the wood which could take days or weeks. Failure to ensure that the wood is properly dried can result in the surface of the wood bowing or bending after the resin layer has been poured.

#### STEP 3 – SANDING SURFACE

Before applying epoxy sand smooth non-porous surfaces. Sanding the surface thoroughly will allow the epoxy to bond “key” to the required surface. Be sure and check surface is clean and dust free after sanding.

#### SEAL COAT – ALL POROUS SURFACES

When working with porous surfaces like wood, concrete and chipboard it is recommended that you seal it with a thin application of resin using a brush or roller. Doing so will seal the surface, avoiding possible trapped air bubbles from within the surface and greatly improving the quality of the final pour. The seal coat must fully cured and then be sanded “keyed” before proceeding.

## PERSONAL PROTECTION

Whenever handling & pouring resin.

You should wear appropriate eye protection and gloves

(see detailed Safety Data Sheet for more information.)

## HOW TO MEASURE & MIX

### MEASURING

It is essential that the product be measured accurately and thoroughly.

Measure 2 part RESIN to 1 Part HARDENER.

We recommend pouring the HARDENDER into your mixing container first, followed by RESIN. This will help the two components mix more thoroughly.



## MIXING RATIO:

### By Weight

100 RESIN: 50 HARDENER

### By Volume

100 RESIN: 50 HARDENER

The mixing ratio must be accurately followed to ensure the resin cures correctly, failure to do so will result in poor or only partially cured resin.

The mixing container should be larger than the quantity of product you are mixing to avoid spillage.

## MIXING INSTRUCTIONS

Mixing of the product can be done by hand with a clean stir stick or in larger quantities with a paddle mixer, the more product you are mixing the longer it will take to achieve a uniform and complete mix between resin & hardener.

Typically mixing should take 3 to 5 minutes depending on the amount of product. The process of mixing is long but is required to eliminate the risk of unmixed resin from the container being poured.

Our resin can be tinted with the addition of mica pigments, solid and translucent liquid pigments.

## POURING

Pour the epoxy onto the surface working your way down the length of the area. The epoxy coat can be allowed to flow over the sides which will create a coating on the vertical edges. The epoxy that drips over will form bumps underneath the lip which can be wiped or sanded off once epoxy has cured.

## CURING TIME

After applying the final coat, the product should be kept clean and, in a relatively dust-free environment, try to limit airborne dust particles. Our Countertop Resin will take at least 2 – 3 days to reach full hardness but takes approximately 5 – 7 hours to touch dry at 25°C. However you should allow at least 24 hours before use.

At temperatures below 25°C, the product will take longer to cure.

We recommend use of placemats & coasters until product reaches full hardness.

## Disclaimer:

The details given in this specification are intended only as a guide. Actual details should be developed by project taking into account the specific circumstances of the intended application. Epoxy Effects Co. Ltd assumes no responsibility for improper reliance or misuse of the data herein. Product design and specification are subject to change with future notice.