EPOXY EFFECTS

DEEP POUR CASTING SYSTEM

ADVANTAGES

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

RECOMMENDED USE

- River Tables, Sculptures, Casting, Paperweights, Place mats, Coasters, Bowls, Vases and more!

PRODUCT DESCRIPTION

EPOXY EFFECTS DEEP POUR CASTING SYSTEM

Our two-component 3:1 Deep Pour Casting system is Crystal Clear, UV resistant, Self-Degassing, High Strength & Hardness.

Our casting resin is used to create: River Tables, Sculptures, paperweights, place mats, coaster, bowls, vases and more!

Can be poured up to 70mm when casting into molds depending on working temperature, care should be taken to avoid risk of overheating project.

When Casting directly with wood a single pour can be our epoxy can be poured up to 50mm deep depending on the temperature. We recommend testing with a layer of 10-30mm first.

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.

WOOD TABLE MOULDING

Ensure you line the base and sides barriers with a suitable product epoxy wont stick to for example:

Polypropylene Sheets

Polypropylene Tape

It is important that your mould is totally sealed to avoid leaking.

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.

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 – 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 cast.

Advised to use kiln dried wood.

STEP 2 – SEALING SURFACE

If you will be pouring over a porous surface such as wood, concrete, chipboard then we recommend you apply a seal coat before the main pour. Doing so will improve the final finish and help eliminate warping & trapped air.

Lightly brush or roll your surface with a thin layer of DEEP POUR RESIN and allow it to cure before proceeding. approx. 24 hours at 25˚C.

STEP 3 -PREPING SURFACE FOR MAIN POUR

In order to ensure that the main pour bonds well to the sealing coat it is necessary to key the surface of the sealing coat using abrasive paper. 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.

STEP 4 - MAIN POUR

Pour the epoxy into the mold taking care not to spill or over pour. Our epoxy can be poured up to 70mm deep depending on the temperature. We recommend testing with a layer of 10mm-30mm first.

Cover project to prevent possible airborne dust or contaminates from entering the epoxy surface.

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 3 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: 33 HARDENER

By Volume

100 RESIN: 30 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.

CALCULATE RESIN:

Estimate the volume of the gap where the resin is to be poured for example the gap between a river table.

You should measure approx. the length, width and depth.

Length (m) x Width (m) x Depth (mm)

This will equal the approximated amount of resin in kg needed.

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 into the mould taking care not to spill or over pour.

Cover project to prevent possible airborne dust or contaminates from entering the epoxy surface.

We recommended testing with a layer of 10mm-30mm for large areas first.

CURING TIME

After applying the final pour, the product should be kept clean and, in a dust-free environment, try to limit airborne dust particles. Our Deep Pour Casting resin will take 8 – 10 hours to cure at 25˚C depending on casting depth. However, you should always check before demolding that the product has reached sufficient hardness.

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

At temperatures above 25˚C, the product will take less time to cure.

Other Products Available:

Mica Powders, Pigments & Tints:

We have a range of pigments compatible with our full epoxy range on our website

Epoxy Effects CounterTop Resin Kits:

Our two-component 1:1 CounterTop Epoxy system is 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.

Crystal-clear, Excellent UV resistance, Self-Leveling, Self-Degassing, 100% VOC-free, 100% solid, Virutally Odourless and Heat Resistant up to 120˚C .

Epoxy Effects Internal Floor Resin Kits:

Our two-component 2:1 Internal Epoxy Floor system is 100% VOC-free, 100% solid and odour free. Specially formulated for Excellent UV Protection, Scratch Resistance, long pot life and working time.

Epoxy Effects Infinity Floor Kits:

Here at Epoxy Effects we have designed our Infinity Internal Floor Range with some of the finest crushed stone including Marbles, Granites & Quartz.

Our full kit allows you to have all the advantages of our Epoxy Effects UVR Resin Bound / Bonded Kits with our seal coat to create a fine sand like floor with high gloss and shine. Once seal coat is applied and cured the floor is 100% Food Safe, UV Resistant, Scratch Resistant & Heat resistant up to 120˚C.

Epoxy Effects Deep Pour Kits:

Our two-component 3:1 Deep Pour Casting system is Crystal Clear, UV resistant, High Strength & Hardness.

Epoxy Effects UVR Resin Bound / Bonded Kits:

Epoxy Effects UVR two-component polyurethane resin is used to create seamless decorative stone driveways & pathways. Some of the benefits of our UVR polyurethane resin are: UV resistant, SUDS Compliant, Weed Resistant, Slip Resistant, Frost Resistant, Seamless & Puddle Free.

Stone Aggregates:

We have a range of Dried Stone Aggregates used to create seamless decorative driveways & Pathways. Our aggregate range have been tested & verified with our UVR polyurethane resin.

Tools & Accessories:

Here at Epoxy Effects we strive to become a one stop shop for everything resin and our Tooling & Accessories Range is growing every day. Here you can find everything you need to complete your project start to finish.

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 furture notice.