MAKE THINGS BETTER WITH

ENTROPY RESINS

COLOURS GUIDE

Entropy Resins takes pride in creating sustainable products that lower our impact on the environment without compromising performance. Our new sustainable, high-performance colourants have up to 98% bio-content.

The Entropy Colours line includes translucent, opaque, and metallic options to customise your epoxy. These biobased, and highly concentrated colourants when mixed with Entropy Resins epoxy, are perfect for a range of applications. Uses include woodworking, resin art, jewellery, board building, coatings and more.

Elemental and Vibrant Translucents

Our translucent colourants are highly concentrated so they last for many projects. Unlike some traditional colourants, Entropy translucent colours won't clump. They maintain absolute translucency, even at high loadings (max. 5%) or in deep pours. Additionally, both kits have an average bio-content of 94%!

We offer two different translucent colour kits that include six bottles of colours (180ml total, 30ml per bottle). Colours can be blended together to create endless colour options.

Elemental Colours kit includes: Bumblebee (yellow), Berry Red (red), Clover Patch (green), Celestial Blue (blue), Whitecaps (opaque white), and Eclipse (translucent black).

Vibrant Colours kit includes: Flamingo's Dream (pink), Island Sunset (orange), Sea Swell (blue), Alluring Orchid (purple), Whitecaps (opaque white), and Eclipse (translucent black).

Eclipse and Whitecaps Opaques

With just a couple of drops, our highly concentrated opaques really do make epoxy opaque (not see through). They can be used at up to a 5% loading (by weight), however they will make the epoxy opaque long before that.

Our opaques are offered as individual 118ml bottles. The colour options are Eclipse (black) and Whitecaps (white). Whitecaps can be mixed with our translucent colours to create opaque colours.

Shimmering Metallics

Our metallics are made with a premium-grade mica powder. The powder allows for more even distribution into the epoxy and won't clump over time like some liquid metallic colourants.

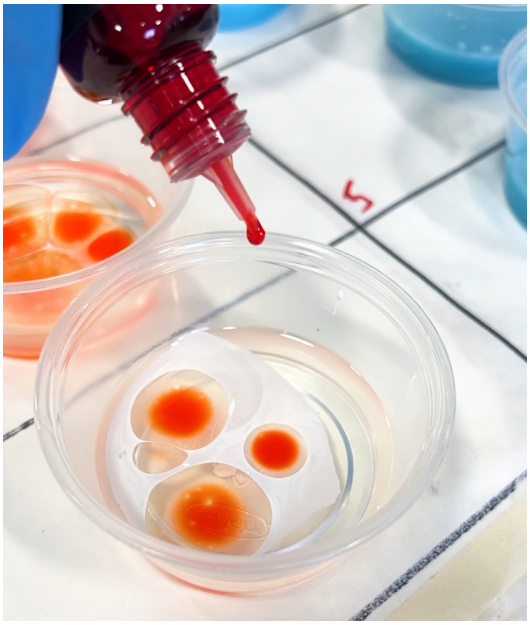
The Shimmering Metallics kit contains three jars of gold, silver and copper to enhance your projects (46g total). For shimmering colours, we recommend using the silver with our translucent Elemental and Vibrant Colours.

ENTROPY RESINS

USDA CERTIFIED BIOBASED PRODUCT PRODUCT 30%

1% FOR THE PLANET — MEMBER —

Colours Instructions

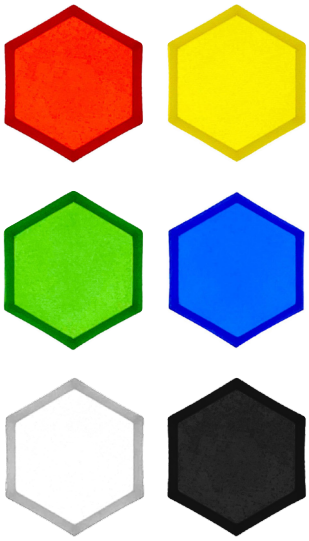


Before working with epoxy or Entropy Colours, put on your protective eyewear and gloves. If you want to produce a specific colour result, we recommend mixing a test batch. Mix a small batch of epoxy, then add your colourant to produce the desired colour. The ratio of epoxy to colourant, and the depth of your pour, will impact the resulting colour.

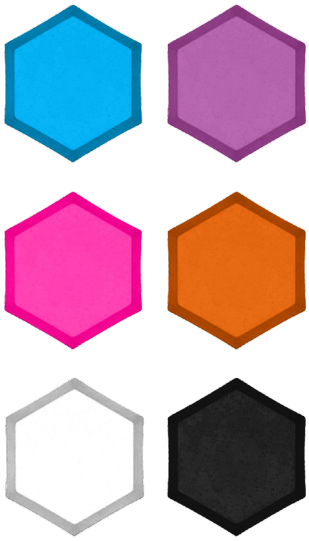
1. **Dispense** your resin and hardener into a mixing container at the proper ratio listed on the hardener bottles or resin and hardener TDS.
2. **Stir** the epoxy with a mixing stick until it is thoroughly mixed together.
3. **Add colourant** to the epoxy. The colours are potent, and it is much easier to add drops than try to take them away. You can mix colours together to create a custom colour blend. The maximum colour loading we recommend is 5% of your total amount of epoxy (by weight or volume).
4. **Stir again** until a consistent colour is achieved. To ensure all material is completely mixed it is recommended to transfer the mixed epoxy to a different, clean mixing container and mix again this ensures any unmixed material on the containers surfaces are incorporated completely. If a streaked effect is desired from the colourant, complete the container transfer before adding the colourant and once completely mixed add the colourant and mix until desired effect is achieved.
5. **Pour** your epoxy onto your project, allow it to cure, and enjoy!

Colour Mixing Guide

Elemental Colours



Vibrant Colours



Shimmering Metallics

Use our colour mixing guide to begin your colour mixing exploration. Our testing started with 25 ml of mixed resin and hardener (28 g), then we added the recommended number of drops. Use our mix ratios or do your own experiments to find your perfect colour!

For the brightest shimmering colours, use silver with the translucent Elemental and Vibrant Colours.

Elemental Colours

3 Clover Patch + 2 Celestial Blue =

4 Berry Red + 2 Celestial Blue =

6 Berry Red + 1 Bumblebee =

6 Bumblebee + 1 Clover Patch =

2 Clover Patch + 2 Celestial Blue =

2 Berry Red + 1 Celestial Blue =

6 Berry Red + 3 Bumblebee =

3 Bumblebee + 3 Clover Patch =

1 Clover Patch + 3 Celestial Blue =

2 Berry Red + 2 Eclipse =

3 Berry Red + 2 Bumblebee =

4 Clover Patch =

4 Celestial Blue =

4 Berry Red =

4 Bumblebee =

Vibrant Colours

3 Sea Swell + 1 Alluring Orchid =

4 Alluring Orchid + 1 Island Sunset =

3 Flamingo's Dream + 1 Island Sunset =

3 Sea Swell + 3 Island Sunset =

3 Sea Swell + 2 Alluring Orchid =

4 Flamingo's Dream + 1 Island Sunset =

4 Island Sunset =

3 Sea Swell + 1 Island Sunset =

3 Alluring Orchid + 1 Island Sunset =

3 Flamingo's Dream + 2 Alluring Orchid =

3 Island Sunset + 3 Eclipse =

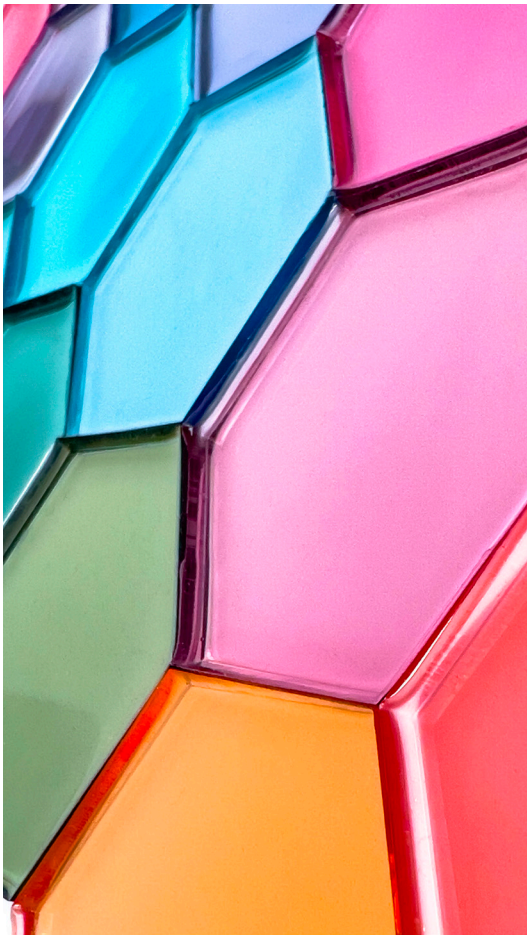
4 Sea Swell =

4 Alluring Orchid =

4 Flamingo's Dream =

4 Island Sunset + 2 Sea Swell =

How to Darken or Lighten Colours



Darken Colours

You've found the perfect colour but it's a little too bright, or too saturated. You can darken, or mute, your colour by using the translucent Eclipse colour included in the Elemental or Vibrant Colour kits. Many times, adding just one drop is enough. We recommend adding drops one at a time and completely stirring it in before adding another to avoid overshooting your desired colour.

Lighten Colours

You're experimenting with colour mixing, and you finally got it just right, but the colour is too strong. Or maybe you just are making a small batch, and that one drop is just too much. The best way to lighten the colour is by adding some additional, uncoloured epoxy to what you have already mixed up. If you're mixing a large batch of epoxy, and the colour is too strong, make a note to add fewer drops the next time.

Pastel Colours

Pastel colours can be made by mixing Whitecaps with the other colours included in your Elemental or Vibrant Colour kit. We recommend starting with one drop of Whitecaps to get your desired opacity level, and then add your colour as needed. For richer or darker colours, you may want to consider adding a drop or two of translucent Eclipse.

If mixing small batches, and one drop is too strong, you can dispense a drop into a clean, empty cup. You can then dip a toothpick into the drop and stir it into the epoxy to achieve your desired look. Dispose of the cup after you're done. Reuse at a later date may cause contamination issues.

How to Create Opaques

Opaque White

The Whitecaps included in the Elemental and Vibrant Colours kits is opaque (not see through). Therefore, adding it to your epoxy will cause the mixture to become cloudy or completely opaque. If you add one drop to 100 ml of epoxy, the epoxy will be opaque in a 10 mm casting.

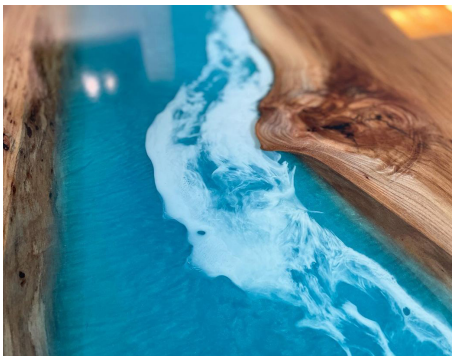
Opaque Black

The Eclipse Black Opaque (sold as an individual colour in a 118ml) bottle is a highly potent opaque colourant. This does have solid particles in it, so it will turn the epoxy cloudy when diluted. For a translucent black, we recommend using the translucent Eclipse (included in the Elemental and Vibrant Colours kits).

Opaque Colours

You can create opaque colours by mixing Whitecaps and the translucent colours included in the Elemental and Vibrant Colours kits. Start by adding Whitecaps to your epoxy until you reach the desired level of opacity, then add translucent colours until satisfied. For more information see the Pastel Colours section.

Project Techniques


Stratified Layers

Pouring in multiple layers is a great way to keep a deep pour from overheating and creates a unique artistic statement. To achieve a layered look in your project, pour epoxy into your castings in stages.

Pour mixed epoxy to the desired depth of your first layer. Let the epoxy gel, but not fully cure. Then mix and pour the next layer. Repeat the steps until you achieve the desired total thickness. If you pour the epoxy before the previous layer gels, the epoxy (and colours) from the two pours will mix together.

Lacing Effect (Ocean Waves)

Lacing effects have become very popular with artists creating ocean scenes. This effect is done by strategically pouring thin lines of epoxy and manipulating them with air.

Begin by pouring your scene, leaving clear epoxy where you want the effect to occur. Drizzle a couple thin lines of white epoxy in that clear area (when making waves, drizzle the white closer to the shore side). Using a heat gun or hair dryer on low, blow the white line to create the desired "wave" pattern.

Epoxying Absorbent Materials

When encapsulating paper, or other such absorbent materials, they will soak up epoxy and look wet in your final project. To keep this from happening, the piece you are encapsulating needs to be sealed first.

Seal your piece by applying a layer of glue sealer or spray on clear coat. Allow to dry before continuing to apply your epoxy as normal. As always, be sure to do a test sample before using in your final project.

Bubble Free

Porous objects, like wood, can release air into the epoxy. To prevent this from happening, a barrier coat needs to be applied to all porous surfaces before casting. Coat the object in a thin layer of epoxy and let it gel to seal the object.

Bubbles created from mixing or pouring will rise to the surface and most will pop on their own. You can use a toothpick to coax any stubborn bubbles to the surface or to pop them. Surface bubbles can also be released with a quick pass of a propane or butane torch.

If doing a large pour, use a slow hardener to minimise air bubbles. Using a slower hardener gives the epoxy more time before it begins to gel (get thicker) and therefore gives more time for bubbles to escape.

For perfectly bubble-free castings, place project in a vacuum chamber or on a vibrating table before the epoxy gels to bring bubbles to the surface. If your project is too large for either of these options, use one of these methods to degas your epoxy in the mixing cup instead. Then, pop the bubbles with one of the previously mentioned techniques.

Sustainability

Entropy Resins takes pride in creating sustainable products that lower our impact on the environment without compromising performance. Our sustainable, high-performance colourants are yet more proof of our continued pursuit of this mission.

All products in the USDA Bio-Preferred program are required to undergo third-party testing to verify bio-content claims. Our translucent and opaque colours surpassed all standards! For our translucent kits (Elemental and Vibrant Colours) test results came back with an average of 94% bio-content. The opaque Eclipse and Whitecaps test results were 73% and 98% bio-content respectively. This is in stark contrast to many of our competitors with zero bio-content in their colourants.

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USDA CERTIFIED BIOBASED PRODUCT PRODUCT 80%

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Technical Support

Need some help choosing the right Entropy Resins Epoxy? Wondering which colour kit to buy? For technical support, visit our Contact Us page or call us at +44 (0) 1794 521 111.