CREATE RESIN ART

Your ideas, our products!

ELI-CHEM
RESINS

ELI-CHEM RESINS

CONTENTS

	PAGE:
Introduction	3
Which is your resin of choice?	4
For resin art and coating: MASTERCAST 1-2-1	6
For resin art, coating and shallow casting: TOTALCAST	8
For high heat resistance and large surface areas: ULTRACAST XT	10
For deep casting and river tables: DEEPCAST	12
For very deep casting and encapsulating: DEEPDIVE	14
Eco resin for resin art, coating and shallow casting: BIOCAST	16
Technical Data chart	18
Ultra fast setting resin for sculptures: RAPIDO	20
3D artwork resin for blob art and geode art: HI-BUILD	22
Water Activated Eco Casting Compound: AQUA CAST®	24
Eco resin with a water based acrylic binder: HYDROFLOW	26

	PAGE:
For unique 3D cracks and textural art effects: XL CRACKLE PASTE	27
resi-CRETE 3D texture medium	28
Bring colour to your art – with Eli-Chem Pigments	30
resi-TINT MAX Pre-Polymer Pigment	32
resi-TINT Acrylic Pigments	33
resi-METAL Metallic Paste	34
res-TINT+ Metallic Powder	35
CELL-BASE Instant Cell Creator	36
ALCOHOL INKS	38
ELI-GLOW Photo Luminescent Pigment	39
resi-BLAST – the medium for creating resin cells	40
You have questions. We have the answers.	42
Our Commitment to a Greener Planet	44

We supply our **RESIN PRODUCTS** to artists worldwide!

Do you sometimes wonder which resin product would be best suited to your work? Are you an artist, sculptor, craftsman or furniture maker?

Or maybe art is only a hobby?

We think what you are doing is very special. And that is why we have come up with a very special solution for you: a complementary line up of crystal-clear resins, brilliant pigments, fascinating additives and structural materials.

We are Eli-Chem Resins. We develop, produce and sell all things related to synthetic resins. For nearly fifty years we have been active in resin supply worldwide and can claim we are an established institution within this industry. In the early years synthetic resins were exclusively used in engineering and industrial sectors, but soon its application range began to expand. Gradually artists and furniture makers began exploring the endless possibilities afforded by the medium of resin. We reacted to this evolving demand by starting to formulate and develop resins and pigments especially designed for artistic and decorative applications.

All resin is not the same

You create individual works of art and similarly our resin systems are also individual. Not every type of resin works well for every application. We have taken this into account and are therefore presenting you with a broad range of different resins. The common elements are: high optical clarity, ease of use and a user friendly application method. So what are the differences between the all resin systems in the range? You will discover more in this brochure. We have developed a comparison chart that introduces each type of resin and lists its salient technical characteristics.

Resin and more

It wasn't enough for us to merely offer resins for artistic purposes. That is why we have developed an entire range of ancillary products to go along with it. Eli-Chem Resins supplies pigment pastes, powders and acrylic inks in multiple expressive colours. Additionally, you will find materials to help you create unique artistic effects and structures to the surface of your art or design project.

When developing our products, we cooperate with artists because we want to know exactly what it is that you need from us. As experts in the field of resins we bring a high level of know-how from the technical and chemical sector to the table. We take care of health & safety aspects and offer a market leading number of resins that have been certified to leading international standards such as ASTM D-4236. Artists provide us with valuable input regarding applications and end results. In this way we are able to provide you with products that meet your exacting standards.

You're in charge of creativity – we're in charge of suitable products. Let it flow, experiment and experience the almost endless possibilities resin has to offer.

We are blown away and left astounded every day by the unique works of art you create utilising these wonderfully versatile materials!

Refine, create, cast – which is your **RESIN** of choice?

Are you a resin fan? Then maybe you know what is possible with resin and have already tried a thing or two. You are in good company, because there are many fans of this fantastically versatile medium worldwide – and the numbers are increasing!

Or maybe you don't know the possibilities of resin yet? What are you waiting for? We have the products, we can teach you at our Resin Art Academy, you can get started straight away!

General resin information to begin with:

THIS IS **RESIN** AND WHAT IT CAN DO

Hard facts first: The type of resin we are referring to is synthetic in nature, two-component 100% solids epoxy resin. Strictly speaking, the term "resin" only refers to the resin component itself (Part A). It is, however common practice to use this as a generic term referring to the mixture of resin and hardener (Part A and B).

Users are captivated by its appearance, the way it glistens, shines and sparkles, the way it makes colours pop and jump to life. Do you feel the same? What kind of work have you done with resin?

Refine your art with clear resin (coating). Create true Resin Art with pigmented resin. A wide range of Eli-Chem Resins pigments are available for this purpose. Create breathtaking effects with dispersion media like resi-BLAST or cell creating pigments like Cell-Base. Work on the most diverse substrates. Create spectacular effects or stunning 3D height and texture. Let yourself be enchanted by one of the most exciting materials known to man.

CHOOSE YOUR ELI-CHEM-**RESIN**

Choosing the right resin is the starting point. There is no such thing as one resin for all applications, it depends on what you're planning to do. Explore our product range and decide which product is suitable for you. We will explain all the technical information allowing you to make an informed choice.

A short overview of Eli-Chem's resin systems:

For resin for coating:
MASTERCAST 1-2-1

For resin art, coating and shallow casting:
TOTALCAST

For covering large surface areas and high heat resistance:
ULTRACAST XT

For deep casting and river tables:
DEEPCAST

For very deep casting:
DEEP DIVE

ECO resin for resin art, coating and shallow casting:
BIOCAST

3D artwork resin for blob art and geode art:
HI-BUILD Artwork Resin

Ultra fast setting resin for sculptures:
RAPIDO Rapid Setting Resin

A good artwork resin will meet the following technical criteria:

- Glass clear
- VOC free (Volatile Organic Compunds)
- free of solvents, BPA and Nonylphenol
- low-odour
- non flammable
- contains UV stabilisers

Also, our synthetic resins have not been tested on animals, contain no animal parts and are vegan-friendly.

This information can be found either directly on the product labelling or on the accompanying leaflet. Also see the product's SDS (safety datasheet) to be found on our website or that of our resellers.

After all, we want you to create the most wonderful works of art whilst feeling safe and confident about it.

Browse further and find out which Eli-Chem Resin is best suited to you. If you are working with multiple layers, you can also combine different resins in successive layers (very important that each resin layer is fully cured before you apply the new layer).

Eli-Chem resin systems differ from each other in these aspects:

1) Viscosity: Resin is of varying viscosity; it can be thick and viscous or thin and watery.

2) Pot life (processing time): Depending on the resin, you have a certain amount of time to work with it before the chemical curing process begins.

3) Curing time: This is how long the resin needs to cure completely until maximum mechanical properties are achieved.

4) Heat resistance: Indicates the heat deflection temperature and Tg (Glass Transition Temperature) the resin possesses.

5) Scratch Resistance: Indicates how resistant the resin is to everyday use and protection against scratches and scuffs.

Each resin is available in different container sizes. The specifications always refer to the total quantity of resin and hardener.

For resin art and coating:
MASTER CAST 1-2-1

Discover which field of resin art MASTERCAST 1-2-1 is best suited for. Find out which surfaces work best and learn about its properties.

Small kit sizes in a practical bundled format, ensuring what belongs together, stays together.

MASTERCAST 1-2-1 is available in the following kit sizes: 400g, 2kg, 4kg, 10kg, 50kg and 390kg bulk units

MASTERCAST 1-2-1

WHAT IT IS.

MASTERCAST 1-2-1 is an ASTM certified two-component resin for safe and user friendly application. Create impressive, high gloss works of art with MASTERCAST 1-2-1.

WHAT IT DOES

Mix the two individual components thoroughly and it becomes a hard and glass clear coating after curing. It also offers the best possible protection against premature UV degradation and yellowing. This is ensured by UV stabilisers, Blockers and Inhibitors. Our products contain UV absorbers and HALS (Hindered Amine Light Stabilisers) and makes use of cycloaliphatic technology.

WHAT IT'S FOR

MASTERCAST 1-2-1 has a medium viscosity, so it is somewhat thicker than other resins. Therefore, it is ideal for fluid-painting. Add pigments or additives to create cell structures.

Create individual optical effects by working with a heat gun or blowtorch. This resin is suitable for use on canvas, wood, glass, metals, furniture, mosaics, ceramic tiles, encaustic pictures, drawings, paintings, photos, paper collages, prints and other non porous surfaces.

CHARACTERISTICS

Due to its thicker consistency, MASTERCAST 1-2-1 is also particularly suitable for beginners. It will self level at a rate which will allow time to get acquainted with its characteristics.

MASTERCAST 1-2-1
MEASURING, MIXING AND APPLICATION

1. MASTERCAST 1-2-1 resin and hardener are mixed 1:1 by volume. Pour the two components into a suitable mixing cup.

2. Stir the measured quantity in the mixing cup. Use a broad edged spatula or mixing stick. Stir slowly and carefully for 3–5 minutes, don't forget to scrape the bottom and sides of the mixing cup as you stir.

3. Your mixture is ready and you now have 25–30 minutes to process the resin. After that it will become too thick as it starts to gel and harden.

4. You have prepared your substrate beforehand, i.e. it is dust free, degreased, lying flat and level on your working surface. Now pour the mixed resin onto the substrate. Resin is self levelling and spreads by itself on a smooth, even surface. However, you can help it along with a spreader or spatula.

5. MASTERCAST 1-2-1 contains air release agents to minimise bubble formation. Any small mixing bubbles can be removed with a heat gun. Pass heat slowly and gradually over the resin surface in a swivelling motion at a distance of approximately 12cm above the resin surface.

6. Protect your work from dust or other foreign objects by working in an environment that is as dust free as possible. Cover your work when finished.

7. Clean the cured surface with a clean cloth.

Important notice: Wear disposable gloves when working with resin. Protect your hands throughout the whole process of measuring, mixing and application. In addition, we recommend that you wear a breathing mask when using heat as a technique to create visual effects. This is especially important if you are working with materials such as spraypaint, solvents or alcohol inks.

Find further technical data regarding MASTERCAST 1-2-1 in the chart on page 18

For resin art, coating and shallow casting:
TOTAL CAST

Find out why TOTALCAST is well suited for refining works of art and embedding objects. TOTALCAST is also known as the jewellery resin.

Working with TOTALCAST: easy, user friendly and safe to use – brings an impressive high gloss finish to your artwork.

Each product name has a different labelling colour to distinguish which resin system it belongs to.

TOTALCAST is available in the following pack sizes: 500g, 2kg, 4kg, 10kg, 50kg and 390kg bulk kits

TOTALCAST

WHAT IT IS
TOTALCAST is a crystal clear, ASTM certified two-component resin. It is one of the highest quality products on the market.

WHAT IT DOES
Mix the two individual components thoroughly and it becomes a hard and glass clear coating after curing. It also offers the best possible protection against premature UV degradation and yellowing. This is ensured by UV stabilisers, Blockers and Inhibitors. Our products contain UV absorbers and HALS (Hindered Amine Light Stabilisers). TOTALCAST makes use of cycloaliphatic technology.

WHAT IT'S FOR
TOTALCAST is particularly suitable if you want to coat or embed objects. This is due to its unique clarity and transparency. Use this high quality resin as coating, sealing and finishing for your artwork. For example: on photos, prints, canvases, wood, MDF, glass, plexiglass, concrete or metals. TOTALCAST is also the go-to resin for the produc-tion of resin jewellery and the shallow embedding of objects.

CHARACTERISTICS
TOTALCAST has a short pot life (up to 20 minutes). The advantage is your castings dry faster and are therefore less susceptible to attract dust or other external influences. TOTALCAST also has advanced air release properties, allowing bubbles created during mixing to raise to the surface more easily.

TOTALCAST
MEASURING, MIXING AND APPLICATION

1. TOTALCAST resin and hardener of are mixed 1:1 by volume. Pour the two components into a suitable mixing cup.

2. Stir the measured quantity in the mixing cup. Use a plastic spatula or mixing stick for this. Stir slowly and carefully for 3–5 minutes, don't forget to scrape the bottom and edges of the mixing cup whilst stirring.

3. Your mixture is ready and you now have 15-20 minutes to work with the resin. After that it will become too thick and start to harden.

4. You have prepared your substrate beforehand, i.e. it is dust free, clean (degreased) and placed level on your work surface.

5. Coating: Pour the resin mixture onto the substrate. Resin is self levelling and spreads itself on a smooth, even surface. However, you are welcome to help it along with a spreader or spatula.

6. Pour in: Your substrate is prepared and has an additional wall or frame (or mould) to prevent the resin from flowing away. Pour the resin onto the substrate. 3D height is possible within a layered structure. Depending on the desired volume, keep in mind a maximum thickness of 1–2cm per layer. As soon as the first layer is touch dry (after about 4–5 hours) you can pour the next layer. The individual casting layers are not visible from above. The lateral view however, will show a faint optical joining line between the layers.

7. TOTALCAST contains air release agents to minimise bubble formation. Any small mixing bubbles can be removed with a heat gun. Pass heat slowly and gradually over the resin surface in swivelling motion at a distance of approximately 12cm above the resin surface.

8. Protect your work from dust or other foreign objects by working in an environment that is as dust free as possible. Cover your work when finished.

9. Clean the cured surface with a clean cloth.

Important notice: Wear disposable gloves when working with resin. Protect your hands throughout the whole process of measuring, mixing and application. In addition, we recommend that you wear a breathing mask when using heat as a technique to create visual effects. This is especially important if you are working with materials such as spraypaint, solvents or alcohol inks.

Find further technical data regarding TOTALCAST in the chart on page18

For high heat resistance and large surface areas: ULTRA CAST XT

We're talking about large surface areas, or surfaces that need to be heat resistant. In these cases we recommend you work with **ULTRA**CAST XT. We have developed this resin system especially for such requirements. Here's why:

Easy to work with!
(2:1mix ratio)

ULTRACAST XT comes in the following pack sizes: 1.5 kg, 3 kg, 7.5 kg, 15 kg and 50kg bulk kits

ULTRACAST XT

WHAT IT IS

ULTRACAST XT is an ASTM certified two-component resin. You can use ULTRACAST XT to create impressive, high gloss artwork with a longer potlife (working time) than other resins.

WHAT IT DOES

Mix the two components thoroughly and ULTRACAST XT becomes a hard and glossy surface after cure.
It also offers the best possible protection against premature yellowing. This is provided by UV stabilisers: Our products contain UV absorbers and HALS (Hindered Amine Light Stabiliser).

WHAT IT'S FOR

Think big! ULTRACAST XT is the go to for large formats and surfaces e.g. large format paintings, tables, worktops, counters, floors etc.

ULTRACAST XT is well suited to mixed media applications. This resin system is also a good choice for surfaces that need to be heat resistant e.g. coasters, serving platters, table tops etc.

CHARACTERISTICS

To do justice to large surfaces, ULTRACAST XT has a particularly long pot life: you can create and work with it for up to 80 minutes. It is also heat resistant up to 80–90°C. Remember, heat resistance is different to heat proof.

ULTRACAST XT also has advanced air release properties, allowing bubbles created during mixing to raise to the surface more easily.

ULTRACAST XT
MEASURING, MIXING AND APPLICATION

1. ULTRACAST XT resin and hardener are mixed by volume 2:1. Pour the two components into a suitable mixing cup.

2. Stir the measured quantity in the mixing cup. Use a plastic spatula for this. Stir slowly and carefully for 3–5 minutes, don't forget to scrape the bottom and edges of the mixing cup.

3. Your mixture is ready, you have up to 80 minutes to work with the resin. After that it will become too thick and start to harden.

4. You have prepared your substrate beforehand, i.e. it is dust free, clean (degreased) and lying level on your work surface.

5. ULTRACAST XT contains air release agents to minimise bubble formation. Any small mixing bubbles can be removed with a heat gun. Pass heat slowly and gradually over the resin surface in swivelling motion at a distance of approximately 12cm above the resin.

6. Protect your work from dust or other foreign objects by working in an environment that is as dust free as possible. Cover your work when it is finished.

7. Clean the cured surface with a clean cloth.

Important notice: Wear disposable gloves when working with resin. Protect your hands throughout the whole process of measuring, mixing and application. In addition, we recommend that you wear a breathing mask when using excessive heat as a technique to create visual effects. This is especially important if you are working with materials such as spraypaint, solvents or alcohol inks.

Find further technical data regarding ULTRACAST XT in the chart on page 18

For deep casting and river tables:
DEEP CAST

Aside from regular painting projects, resin is also good for use in deeper applications. You are able to pour thick sections, high volumes, unusual shapes and 3D impressions.

We recommend our DEEPCAST resin for casting larger objects and for the fast growing sector of resin river tables. With DEEPCAST you can experience resin in a completely new way and discover many more exciting possibilities.

DEEPCAST is available in the following pack sizes: 300ml, 750ml, 1.5L, 3L, 7.5L, 15L, 37.5L and 600L bulk kits

DEEPCAST

WHAT IT IS
DEEPCAST is a two-component clear epoxy resin and one of the highest quality products on the market.

WHAT IT DOES
Mix the two individual components thoroughly and DEEPCAST becomes a hard and glossy surface after cure. It also offers the best possible protection against yellowing due to the latest UV stabilisers: Our products contain a UV absorber and HALS (Hindered Amine Light Stabiliser).

WHAT IT'S FOR
We have developed DEEPCAST especially for filling moulds and knots, cracks or cavities in wood. This makes it perfect for the production of resin river tables. With DEEPCAST, you can pour up to twelve litres in a single pour and achieve a depth of up to 50mm.

CHARACTERISTICS
DEEPCAST has a long curing time, which means that it does not shrink during cure (an important requirement for craftsmen). The reason for this is the low heat development and minimal exotherm. With DEEPCAST, the exothermic reaction during the blending of resin and hardener is much lower than with other resin systems. Otherwise it would not be possible to cast such large quantities.

DEEPCAST
MEASURING, MIXING AND APPLICATION

1. DEEPCAST resin and hardener are mixed by volume 2:1. Pour the two components into a suitable mixing cup.

2. Stir the measured quantity in the mixing cup. Use a plastic spatula for this. Stir slowly and carefully for 3–5 minutes, don't forget to scrape the bottom and edges of the mixing cup.

3. Once your mixture is ready you have 10 hours to work with the resin, gel time is 12–24 hours dependant on temperature and depth.

4. You have prepared your mould accordingly beforehand. Now pour the resin mixture into the mould.

5. Protect your work from dust or other foreign objects by working in an environment that is as dust free as possible. Cover when finished.

Wood loves resin.
DEEPCAST loves
extravagant shapes.

Important notice: Wear nitrile gloves when working with resin. Protect your hands throughout the process of measuring, mixing and applying resin.

DEEPCAST has been specially designed to have minimal exotherm and a significantly longer open and curing time.

Find further technical data regarding Eli-Chem DEEPCAST in the chart on page 19.

For very deep casting and encapsulating:
DEEP DIVE

Eli-Chem Resins' DEEPDIVE is an unaccelerated casting system which offers a long open time for precise article placement and has excellent self-degassing properties. It also avoids high exothermic reaction and the resulting shrinkage after curing. It has good UV resistance, clarity and transparency making the resin system suitable for just about any deep creative project.

DEEPDIVE is available in the following kit sizes: 3kg, 7.5kg, 15kg, 37.5kg

DEEPDIVE

WHAT IT IS
DEEPDIVE is a casting resin that produces a crystal clear, high gloss finish and is particularly suited to deeper casts in one pour.

WHAT IT DOES
Mix the two components together thoroughly and DEEPDIVE cures to a hard and glossy surface.

It also offers the best possible protection against yellowing, due to the latest UV stabilisers. Our products contain a UV absorber and HALS (Hindered Amine Light Stabiliser).

WHAT IT'S FOR
Ideal for deeper casts in one pour, resin river tables, wood/resin projects, flower preservation and encapsulation. It has excellent clarity and transparency, making the resin system suitable for deep creative projects.

CHARACTERISTICS
DEEPDIVE has a long curing time which means that it has minimal shrinkage during curing which is important for crafters. The reason for this is the low heat development and minimal exotherm.

Due to the longer working time, DEEPDIVE can be poured up to 15kg or 85mm thickness (whichever comes first) in one pour.

DEEPDIVE
MEASURING, MIXING AND APPLICATION

1. DEEPDIVE resin and hardener are mixed 2:1 by weight. Pour the two components into a suitable mixing container.

2. Mix by hand or with electric mixer and avoid incorporating too much air. Regularly scrape the sides, base and corners of the mixing vessel to ensure full homogeneity. Mix until it is a uniform colour and consistency (usually 3–4 mins) and leave the mixture for 10–15mins to help self-degassing before pouring into mould.

3. Once your mixture is ready you have 12 hours to work with the resin, gel time is 12–36 hours dependant on temperature and depth.

4. The maximum volume that can be poured in one go is 15kg or up to 85mm at 18°C, whichever comes first. The mixed resin can be tinted with our resi-TINT, resi-TINT MAX, resi-METAL or resi-TINT+.

5. The mixed product can be poured into a watertight mould. The mould can be plastic or made of silicone rubber. Moulding can be carried out by gravity or under vacuum. Temperature should be between 18–22°C, humidity level below 70%.

Important notice: Although our resins are formulated with the latest and safest epoxy chemicals available, all epoxies are chemicals and should be managed and handled with proactive safety hygiene and responsible care. Always wear nitrile gloves when working with resin.

Eco resin for resin art, coating and shallow casting: BIOCAST

Introducing our revolutionary BIOCAST Artwork Resin: a sustainable and eco friendly solution that redefines the way you think about resin based products. Crafted with care for both your artistic endeavours and the planet, BIOCAST resin offers an exceptional combination of high performance and environmental consciousness.

BIOCAST is available in the following kit sizes: 500g, 1kg, 2kg, 4kg

BIOCAST

WHAT IT IS

Being carbon neutral is very important to Eli-Chem and great time and expense has been taken to develop BIOCAST using naturally derived raw materials.

WHAT IT DOES

For ease it is a 1:1 mix ratio resin (by volume), has excellent cured performance, optical clarity, and UV resistance with a substantially reduced carbon content. When mixed, BIOCAST has a bio content of 23% biomass from the paper and pulp industry.

WHAT IT'S FOR

BIOCAST lends itself to resin art as the thicker viscosity makes the pouring technique much more controllable. BIOCAST is easily pigmented with any of our pigments, other additives can be used to create attractive cells and lacing.

BIOCAST can also be used for clear coating and shallow casting.

CHARACTERISTICS

BIOCAST has a thicker consistency which makes it very suitable for resin art. It self levels more slowly allowing time to manipulate your work.

BIOCAST
MEASURING, MIXING AND APPLICATION

1. BIOCAST has a 1:1 mix ratio by volume. By weight: 100 parts resin to 90 parts hardener. Pour the two components into a mixing cup and stir thoroughly until well mixed.

2. Epoxy systems tend to heat up much faster in a pot than as a thin film. Mix only the necessary amount usable within the pot life. Mix until it is a uniform colour and consistency, usually 3–4 minutes. Don't forget to scrape the bottom and sides of the mixing cup as you stir.

3. Once BIOCAST is mixed you will have 40 minutes to work with the resin and create your artwork.

4. The mixed resin can then be tinted any colour with the addition of polymer or water based pigments available in all solid and translucent colours.

5. Ensure your substrate is lying flat and level, now pour your mixed resin onto the surface. BIOCAST is self levelling and will spread to a smooth, even surface.

6. Protect your work from dust by working in an area as dust free as possible. Cover your work with an upturned box if possible.

7. Wipe the cured surface with a clean cloth.

BIOCAST can be paired with AQUA CAST, our water based eco resin to create unique castings.

Important notice: Although our resins are formulated with the latest and safest epoxy chemicals available, all epoxies are chemicals and should be managed and handled with proactive safety hygiene and responsible care. Always wear nitrile gloves when working with resin.

	MASTERCAST 1-2-1	TOTALCAST	ULTRACAST XT
Resin and hardener mixing ratio	1 : 1 by volume 1 : 0.9 by weight	1 : 1 by volume 1 : 1 by weight	2 : 1 by volume 2 : 1 by weight
Viscosity	4.400–4.700 mPa.s*	3.300–3.500 mPa.s*	1.500–1.600 mPa.s.*
Working time	25–30 minutes at 22°C	15–20 minutes at 22°C	up to 90 minutes at 22°C
Heat resistance after curing	45–50°C	45–50°C	80–90°C
Thickness per layer	up to 5mm (max. 2kg in one pour)	up to 20mm (max. 3kg in one pour)	up to 25mm (max. 3kg in one pour)
Curing time (touch dry)	6–8 hours at 22°C	3–4 hours at 22°C	24 hours at 22°C
Curing time (full cure)	5–7 days	5–7 days	7–10 days
Shelf life	1 year in sealed containers	1 year in sealed containers	1 year in sealed containers
Frost resistance of fluid components	yes	yes	yes
Frost resistance of cured resin	yes	yes	yes
No VOC's	yes	yes	yes
UV protection HALS	yes, very good UV protection	yes, very good UV protection	yes, very good UV protection
Food safety**	yes	yes	yes
Scratch resistance	moderate	moderate	moderate

*mPas = millipascal second / viscosity / the higher the number, the higher the viscosity

DEEPCAST	DEEPDIVE	BIOCAST
2 : 1 by volume 2 : 1 by weight	2 : 1 by weight	1 : 1 by volume 1 : 1 by weight
800–1.100 mPa.s*	800 mPa.s*	6000 mPa.s.*
Up to 10 hours at 18°C	12 hours at 18°C	40 minutes at 22°C
50–60 °C	70–80 °C	45–50°C
up to 5mm (max. 12kg in one pour)	up to 85mm (max. 15kg in one pour)	up to 10mm (max. 2kg in one pour)
3–4 days at 18°C	4–5 days at 18°C	5–6 hours at 22°C
14–21 days	14–21 days	5–7 days
1 year in sealed containers	1 year in sealed containers	1 year in sealed containers
do not store under 10°C as the product may crystallise. Placing the bottle in hot water will reverse the crystallisation.	do not store under 10°C as the product may crystallise. Placing the bottle in hot water will reverse the crystallisation.	yes
yes	yes	yes
yes	yes	yes
yes, very good UV protection	yes, very good UV protection	yes, very good UV protection
yes	yes	yes
high	high	moderate

**After full cure the resin is safe for incidental contact with food. It should not be used as a food preparation surface or cutting board

Ultra fast setting resin for sculptures: **RAPIDO**

RAPIDO is an extremely fast setting, pourable resin for creating extraordinary art. Easily coloured with resin based pigments. Embellishments can be added immediately after pouring onto the cast Rapido Resin, e.g. small crystals, mirrors, glitter or semi-precious stones.

RAPIDO is available in the following kit sizes: 500g

RAPIDO

WHAT IT IS
Experience a completely different way of working with resin with RAPIDO. Mix and pour in the usual way, but this is where the similarities to traditional resins ends.

WHAT IT DOES
RAPIDO sets super fast so that you can create amazing three dimensional sculptures in seconds! Break new ground in resin art with this unique resin. RAPIDO resin changes its consistency very quickly from liquid, to gel, to full cure.

WHAT IT'S FOR
Ideal for cup art, frozen resin waterfalls and sculptures of any shape. RAPIDO is unique in the resin art world, being able to create sculptural 3D creations in minutes.

CHARACTERISTICS
RAPIDO sets in seconds so you will need to work fast. The working time is 45-60 seconds. Only use polymer pigments, pastes and powders with RAPIDO. Water based pigments are not suitable for RAPIDO as they react with the resin and will foam. Epoxy pastes such as our resi-TINT MAX pigment pastes or other non-water based pigments are suitable to use.

RAPIDO
MEASURING, MIXING AND APPLICATION

1. To colour RAPIDO add selected pigments to the resin before adding the hardener.

2. Mix pigmented resin and hardener together in a 1:1 ratio by weight for about two minutes. You will feel the exothermic reaction begin immediately and the mixing cup will get warmer and warmer during mixing.

3. You can include your mixing cup in the sculpture or any other receptacle. If you want to pour from another container, then pour your RAPIDO mixture into it now.

4. The mixed resin will start to thicken a few seconds after mixing, you can also feel this as the mixing cup gets quite warm. Don't worry though, this is normal and your mixture will not boil or burn.

5. As soon as your RAPIDO mixture has started to thicken you can pour it. RAPIDO gels very quickly, within seconds. So pour to create you structure quickly before it stops flowing, we suggest one or two trial runs to get a feel for the product.

6. Hold your resin structure in place for about 5 to 10 minutes to make sure everything stays in place. This resin is touch dry after about 15 minutes.

Important notice: Although our resins are formulated with the latest and safest epoxy chemicals available, all epoxies are chemicals and should be managed and handled with proactive safety hygiene and responsible care. Always wear nitrile gloves when working with resin.

3D artwork resin for blob art and geode art: **HI-BUILD**

HI-BUILD Artwork Resin is a high viscosity, two part artwork resin that offers the benefits of 3D height. This resin is the thickest, most gloopy and controllable available on the market and is perfect for Blob Art, Dot Art, Geode Art and doming.

HI-BUILD is available in the following kit sizes: 400g, 2kg, 4kg, 10kg

HI-BUILD

WHAT IT IS

HI-BUILD is a two part epoxy resin which will work well in any application where the user wants the resin to stay exactly where it is dropped; no slumping, no sliding, no movement, it stays where you drop it.

WHAT IT DOES

Simply mix in a 1:1 ratio and let it drip, drop or ooze off your spatula. HI-BUILD formula, can be poured up to 10mm thick per drop. It has exceptional UV resistance and is non-flammable and non-toxic.

WHAT IT'S FOR

Ideal for Blob art, 3D collage work and Geode art. It can be used on many surfaces such as canvas, wood, MDF, glass, Perspex, concrete and metals.

CHARACTERISTICS

HI-BUILD resin is not available in a clear option, by default it is an off white colour and therefore must be pigmented. Use a suitable resin pigment e.g. resi-TINT, resi-TINT MAX, resi-METAL (or equivalent).

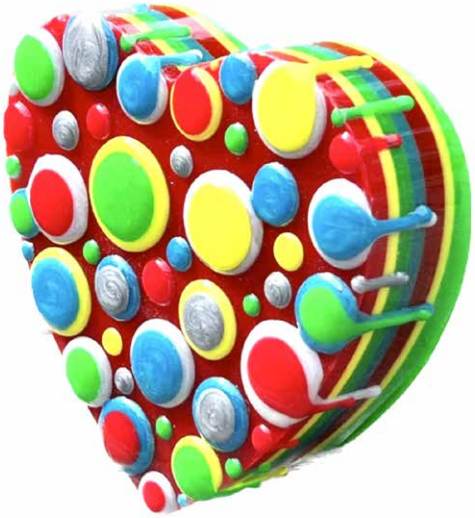
HI-BUILD
MEASURING, MIXING AND APPLICATION

1. Hi-Build has a 1:1 mix ratio by volume. By weight: 100 parts resin to 90 parts hardener. Pour the two components into a mixing cup and stir thoroughly until well mixed.

2. The mixed components should be thoroughly stirred for 3–4 minutes to ensure an even consistency, add the mixed resin to individual cups and add your chosen pigments to each cup.

3. The product can then be dropped onto the surface to create domed 3D shapes. Apply by hand, if it's too gloopy to measure properly simply place the lidded resin container in warm water to lower the viscosity, measure and allow to cool again before mixing.

4. Any bubbles created by hand mixing can be easily popped by using a sharp object or by passing warm air over the surface of the resin with a blowtorch or hot air dryer on slow speed settings.



Important notice: Although our resins are formulated with the latest and safest epoxy chemicals available, all epoxies are chemicals and should be managed and handled with proactive safety hygiene and responsible care. Always wear nitrile gloves when working with resin.

Water Activated Eco Casting Compound:
AQUA CAST®

AQUA CAST® eco resin is an environmentally friendly fusion of powder and polymer which only needs the addition of water to make beautiful homeware. AQUA CAST® can be easily pigmented using resi-TINT inks or other water based pigments. It couldn't be easier, simply add water, mix and pour.

AQUA CAST® is available in the following kit sizes: 3kg, 10kg, 15kg, 25kg

AQUA CAST®

WHAT IT IS
We have fused the acrylic polymer additives into one ground breaking powder to make this easy to use eco resin. All mechanical properties normally found in a traditional powder and polymer mixture remain the same, giving AQUA CAST® excellent cured strength.

WHAT IT DOES
Add water from the tap with AQUA CAST® to create beautiful homeware with a smooth, impact resistant surface and strength. AQUA CAST® can be used to create terrazzo pieces and has excellent reproduction of detail. The water addition rate can be changed to create a lower or higher viscosity, (runnier or thicker) to suit the individual application.

WHAT IT'S FOR
Perfect for coasters, ornamental vases, planters, candle holders, soap dishes and detailed, textured figurines. AQUA CAST® can be partnered with our art resins when using a mould to create mixed media pieces. Other uses include sculptures or as a structural medium for your art. You can even create pieces of furniture such as side tables with AQUA CAST®.

GOOD TO KNOW
We have a handy online calculator tool on our website, all you need to know (or calculate) is the volume of your mould in grams or millilitres. A sealer is available in either eggshell or satin finishes to seal your work.

AQUA CAST®
MEASURING, MIXING AND APPLICATION

1. AQUA CAST® can be mixed by hand or with an electric mixing blade for 2–4 minutes until uniform and smooth. Scrape the bottom and sides of the mixing cup to avoid lumps.

2. Add pigments at the mixing stage to obtain the desired colour shade. The mixed solution will rapidly become creamy and lump free. Tap the mixing container to help remove trapped air.

3. Ensure your mould is dust and grease free and lying flat on your work surface.

4. Immediately pour the mixed AQUA CAST® into your mould and allow to settle. Any residual bubbles can be popped by agitating or tapping the mould.

5. Allow to harden for 60–90 minutes before demoulding (temperature and mix ratio dependent). Allow to dry for 24–48 hours to build cured strength.

6. AQUA CAST® can be painted or embellished with your choice of glitter or mica powders. AQUA CAST® can now be sealed with our sealer if required.

Important notice: No safety equipment is needed when using AQUA CAST® as it is an eco friendly powder, but it is wise to cover your work surface to prevent staining from pigments.

Eco resin with a water based acrylic binder: **HYDROFLOW**

HYDROFLOW eco resin is an environmentally friendly, water based casting compound that comes in two components – a mineral powder and a water based acrylic binder. It has thousands of uses, limited only by the shape of your mould. Patterns can be created in newly poured pieces using a variety of tools.

HYDROFLOW is available in the following kit sizes: 1.75kg, 3.5kg, 7kg, 14kg, 35kg

HYDROFLOW

WHAT IT IS

A sustainable solution for creating functional and decorative items with a cement texture and appearance. Can be used to make smooth or textured pieces, HYDROFLOW will replicate the most detailed texture in your mould to produce unique jewellery, creative arts and crafts.

WHAT IT DOES

Easily coloured with water based pigments such as our resi-TINT acrylic inks, acrylic paints or powdered tempura paints. Can be sealed and protected with HYDROFLOW and AQUA CAST® Sealer.

WHAT IT'S FOR

Perfect for coasters, platters, vases, planters, soap dishes and many other items. Ideal for creating textured art pieces on canvas and wooden boards. HYDROFLOW is also popular to create pieces using the terrazzo effect.

CHARACTERISTICS

Easily sanded to create different finishes. Can be demoulded in less than one hour. Clean up is easy as mixing containers and tools can be cleaned with water after use.

For unique 3D cracks and textural art effects: **CRACKLE PASTE**

XL CRACKLE PASTE is great for creating textural art effects and bringing unique 3D cracks to your art. Create exciting craquelure and add another dimension to your art.

CRACKLE PASTE IS AVAILABLE IN THE FOLLOWING KIT SIZES: 180g, 1.2kg, 2.4kg

CRACKLE PASTE

WHAT IT IS

Crackle mediums have been around for a while but this exciting new development takes it a step further. The kit consists of two parts, either a white or black base (primer) and the XL CRACKLE PASTE for the top layer. This two-stage format offers endless controllability and adaptability not previously possible with single-pack crackle mediums.

WHAT IT DOES

The primer adheres well to materials such as canvas, wood, styrofoam, plastic, glass or metal. It is not suitable for materials made of silicone. The primer adheres perfectly to the XL CRACKLE PASTE and can be pigmented before application.

WHAT IT'S FOR

XL CRACKLE PASTE is a structural paste for the production of cracks which appear as the paste dries. These cracks are deeper and wider the thicker you apply the XL CRACKLE PASTE, a layer of up to 50mm thick is possible. This is what makes this crackle paste unique.

CHARACTERISTICS

Layers up to 50mm thick are possible creating textural 3D effects.

resi-CRETE

Provide a new look for your artwork with resi-CRETE. Create different types of concrete effect texture quickly, safely and easily.

The cured material leaves a subtle matt finish. For a glossy seal, cover it with MASTERCAST 1-2-1 resin. Create a contrast between matt and gloss, or raw texture and smooth texture on your object.

IMPORTANT resi-CRETE FACTS

- resi-CRETE is a pre-pigmented cementitious polymer that can be mixed with acrylic emulsion or resin.
- resi-CRETE is a light weight structural material.
- Use resi-CRETE to create surfaces with the look and texture of concrete or relief like structures with cracks and facets. The end effect depends on how you use resi-CRETE and which other product you mix it with.
- resi-CRETE dries very quickly when mixed with the acrylic emulsion (20 minutes) which makes it possible for you to apply several coloured layers on top of each other within a short time.
- You can work on most surfaces with this structural material, for example on canvas, wood, MDF, glass, steel, metals, stone or ceramics.
- resi-CRETE colour range. We currently offer 17 colours. Not enough for you? No problem. Simply colour to your desired shade using our range of liquid pigments (e.g. resi-TINT).

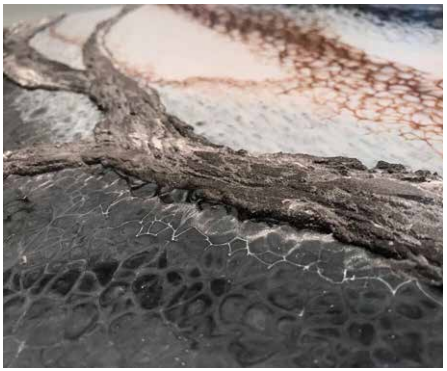
resi-CRETE:
1kg pack

resi-CRETE APPLICATION

There are different ways to work with resi-CRETE. Depending on the desired look, select the right amount of various suitable products.

A)
resi-CRETE and acrylic emulsion – for a concrete-like surface

1. First pour resi-CRETE powder into a mixing cup.
2. Add a small amount of acrylic emulsion and mix together by stirring continuously for 2–3mins.
3. Add acrylic emulsion to thin down your mixture to a smooth creamy paste. Make sure you achieve an even consistency without lumps.
4. To test the consistency, hold it vertically and if it doesn't slump it is the perfect viscosity for this application.
5. The less acrylic emulsion you add, the firmer the texture paste will be. It can be applied to create 3D structures.



B)
resi-CRETE and acrylic emulsion – for a relief surface

1. First apply resi-CRETE powder into a mixing cup.
2. Add acrylic emulsion and mix. Stir with a spatula or paddle mixer.
3. Add only as much acrylic emulsion as you need until the finished mixture has a firm to very firm consistency. This will create a texture paste and allow you to create raised structures.
4. Apply the compound a little thicker to the surface and warm it up with a heat-gun or hairdryer to encourage expansion and surface cracking.
5. When mixed with acrylic emulsion the working time for resi-CRETE is 30 minutes. It is fully cured in 2–3 hours.

C)
resi-CRETE and Resin – make your own resin based paste

1. Mix a batch of resin. MASTERCAST 1-2-1, TOTALCAST and ULTRACAST XT are suitable for working with resi-CRETE.
2. Add resi-CRETE and mix thoroughly. Mixing ratio resi-CRETE to resin: Add up to 40% resi-CRETE, i.e. up to 40g resi-CRETE to 100ml resin mixture. This type of application allows you to work with the resin in a different way: create vertical designs or take advantage of the mixture not being too runny on a flat surface. By mixing resi-CRETE with resin, you increase its viscosity, making it thicker and more controllable.

A resi-CRETE resin mixture is slightly more matt than pure resin after curing. The curing time of the resin will determine the overall curing time.

Bring colour to your art – with Eli-Chem **Pigments**

As a rule, art and colour are inseparably linked. The same goes for working with resin. You can colour resin any way you like – we will provide you with a wide range of pigments. Each one of them has its own characteristics and in the following pages you will find our current pigments listed and described in detail.

RESIN: CLEAR OR **PIGMENT**ED?

It depends on the effect you want to achieve. Use clear resin for a glossy finish or to create a three dimensional effect. Colour it if you want to get creative. You will find our products suitable for all eventualities: Eli-Chem pigments complement our resin systems perfectly.

Colour is a quite subjective thing and not every hue or tone is to everyone's taste. That's why we have something for everybody in our range: strong, rich, bright, translucent, pastel or radiant colours. Even pigments with a metallic shimmer and photo luminescent (glow in the dark) pigments. You can mix and match to create your own favourite effect.

All that's left for you to do is decide which ones you would like to apply to your projects.

Eli-Chem pigments: colourful diversity for your art!

THE ELI-CHEM-**PIGMENTS** AT A GLANCE

Our pigments can be summarised into three groups: There are pre-polymer pigments (paste pigments), powder pigments and acrylic pigments (ink). They are all well suited to resin art, although not exclusively. The pigments differ in their composition and application and possess different technical properties. The following pages will provide you with further information:

resi-TINT MAX
paste pigment

resi-TINT
acrylic pigment

resi-METAL
paste pigment

resi-TINT+
powder pigment

Cell-Base
paste pigment

Eli-Glow
powder

Alcohol Inks

Each pigment is available in different colours or shades, like the perennial favourite Ultra Marine Blue or Classic Red and also trending new colours like Lime Green and Violet Vigour. We increase our range of colours from time to time in order to give you fresh impulse for new and extravagant creations. This brochure will give you an overview of the current shades.

We recommend that you wear nitrile gloves when working with resin. Also, it is advisable to wear a breathing mask. This is especially important when working with large quantities or spray and alcohol based inks, for example.

resi-TINT MAX Pre-Polymer Pigment

High quality pre-polymer pigments with a heavy body paste consistency. The pre-polymers contained ensure that these colour pastes blend and disperse well in resin. This is due to the fact that resin also contains polymers, therefore they are 100% compatible. With this pigment range added to your resin you will be able to create magical works of art.

CHEMICAL STRUCTURES OF THESE PIGMENTS
IMPORTANT resi-TINT MAX FACTS

- Pre-polymer paste pigments have a high viscosity and therefore have a syrup-like consistency.
- resi-TINT MAX provides a rich colour effect with rapid and uniform dispersion into the resin.
- resi-TINT MAX is highly concentrated, so you will only need a small amount of it to colour your resin: For a 200ml resin mixture you only need an addition of 2–5g resi-TINT MAX.
- Generally speaking, the degree of light fastness is very high. Most of our resi-TINT MAX colours have a BW light fastness rating of 8.

resi-TINT MAX application

- resi-TINT MAX can be easily mixed into your resin mixture. Simply add and stir thoroughly.
- This paste pigment is suitable for all Eli-Chem epoxy resin systems.
- For stronger effects on the resin surface, add a few droplets of resi-BLAST to the resin and pigment mix.

Lemon Yellow
Naples Yellow
Sunset Yellow
Pure Orange
Classic Red
Rust Red
Vivid Pink
Mulberry
Boston Brown
Ultra-marine
Sky Blue
Azure Blue
Turquoise
Lime Green
Sage Green
Racing Green
Teal Temptation
Sea Glass
Granite Grey
Slate Grey
Blackout
Titanium White
Fresno Pink
Pink Innocence
Cardinal Blue
Marooned
and 6 additional colours

resi-TINT MAX:
50g and 100g pots

resi-TINT Acrylic Pigments

With resi-TINT you add colour to resin. Lots of colour, a little colour – that's entirely up to you. From the very intensive to a subtle watercolour and pastel effects, anything is possible. The resi-TINT colours can be mixed with each other to create a bespoke and custom shade. Very simple. Always individual.

IMPORTANT **resi-TINT** FACTS

- resi-TINT acrylic pigments are perfectly suited for mixing into resin.
- This colourant is very economical to use because it is highly concentrated: 1ml resi-TINT is sufficient to colour 1,000ml of mixed resin.
- resi-TINT is highly resistant to fading. This makes it ideal for artistic design.
- Also suitable for use in airbrush guns.

resi-TINT application

- Simply mix resi-TINT into the resin mixture.
- The dropping pipette allows you to dose exactly. This way it is completely up to you how intense the colouring of the resin turns out.
- Mix resi-TINTs to obtain the desired shade.

Brilliant Yellow
Flame Orange
Scarlet
Flame Red
Magic Magenta
Violet Vigour
Purple Rain
Royal Blue
Sea Blue
Marine Blue
Turquoise
Emerald Green
Pine Green
Lime Green
Light Grey
Dark Grey
Black
White

resi-TINT: 29.5ml glass bottle with dropping pipette

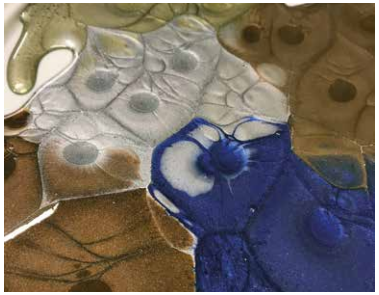
resi-METAL Metallic Paste

resi-METAL is a range of solvent free metallic paste pigments, especially developed to be used with various synthetic resins (epoxy, polyester and polyurethane resins). It's pre-polymer base is fully compatible with the resin. This ensures the metallic effect and texture remain consistent after the resin has cured.

resi-METAL: 100g pot

Bronze Beach | Copper Rush | Aluminium Oxide | Golden Lustre | Blue Steel

IMPORTANT resi-METAL FACTS



- Pre-polymer pigments have a high viscosity and therefore have a syrup-like consistency.
- They are highly concentrated, so you only need a small amount to colour your resin: For a 100ml resin blend you need only 2.5g resi-METAL.
- resi-METAL paste pigments don't fade as easily as conventional metal flakes or powders.
- Besides a metallic shimmer, resi-METAL also creates fabulous surface effects.
- The pigments remain stable and inert during storage. They are insensitive to extreme temperatures and have an almost unlimited shelf life.

resi-METAL application

- resi-METAL can easily be mixed into the resin mixture. Add it and stir thoroughly. It disperses evenly and quickly into the epoxy resin.
- resi-METAL can also be mixed into clear polyester and polyurethane resins, lacquers or sealants.
- Transform your resin into a shimmering metallic surface with even the smallest addition amount. When used correctly, resi-METAL does not alter the curing process or the properties of the cured resin.
- resi-METAL is well suited to all Eli-Chem resin systems.

resi-TINT+ Metallic Powder

resi-TINT+ powder pigments will give the surface of your artwork a metallic finish. The fine particle size offers different application possibilities e.g. mixing into resin, sprinkling over wet resin, etc.

IMPORTANT resi-TINT+ FACTS

- Metal powder pigments are fine powders, they have a very low particle size.
- resi-TINT+ is one of the powder pigments well suited to working with resin.

Give your artwork a glamorous finish with metallic powder pigments: Your art will sparkle and shimmer thanks to resi-TINT+

resi-TINT+ application

- Add a small amount of resi-TINT+ to your clear resin mixture. Dispersion is rapid and uniform.
- Sprinkle or lightly blow a small amount of resi-TINT+ over the surface of your poured resin while it is still in the fluid stage. Spread with heat from a heatgun or blowtorch and watch the leafing effects appear.
- Combine resi-TINT+ with resi-TINT acrylic inks or resi-METAL pigments.

resi-TINT+:
15g jar or 50g jar

Rich Gold

Copper

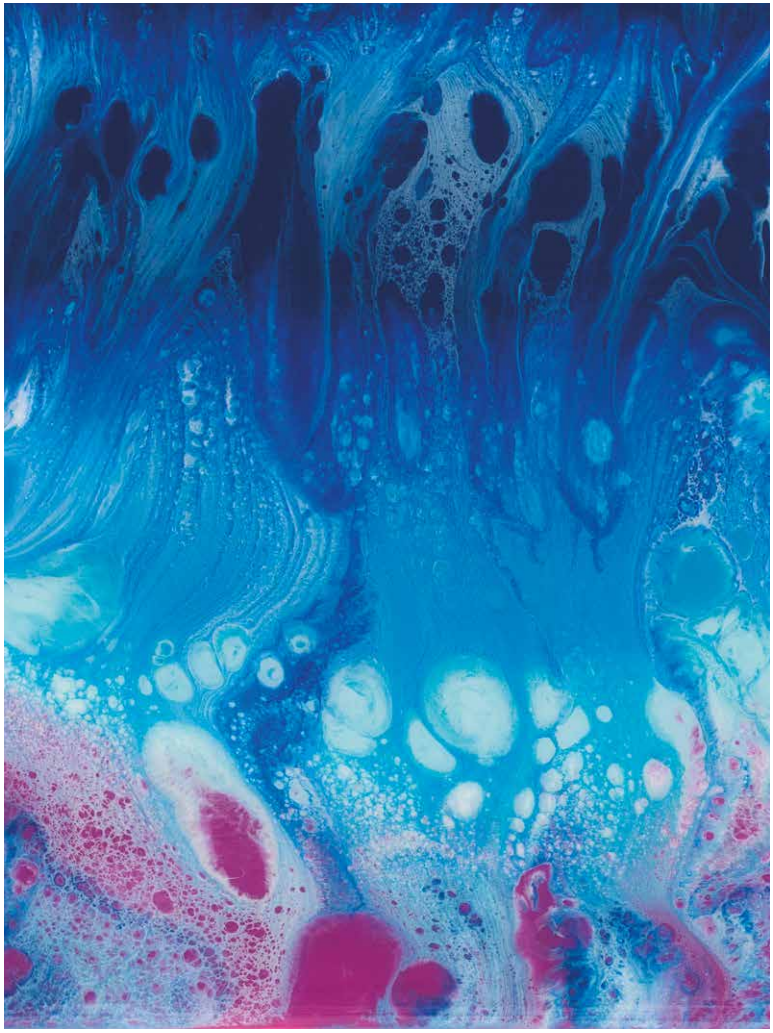
Rose Gold

Aluminium

CELL-BASE Instant Cell Creator

Cell-Base is an extraordinary and innovative concept for resin art. Cell-Base is a pigment and cell creator: a medium that is pre-pigmented and produces incredible effects when used correctly. Cell-Base opens up completely new possibilities for resin art.

Cell-Base: 75g pouch



Lapis Blue | Cornflower Blue | Teal | Juniper | Purple Envy | Coral Pink | Poppy Red | Shadow Grey | Polar White | Pitch Black | Metallic Gold | Metallic Silver | Metallic Copper

IMPORTANT **CELL-BASE** FACTS

- Cell-Base has been developed to work with our coating resins range. In terms of viscosity, density and curing schedules they are ideally suited to Cell-Base projects.

- Paste pigments (resi-TINT MAX etc) are best suited as colourants for the top (swiped) layer. For more information on layers, see the "Application" section; e.g. Acrylic paints, inks and powder pigments are not well suited for this purpose. Metallic pigments also result in differing results when used with Cell-Base.

- Cell-Base pigments can also be used in a “dirty pour“ technique.

Cell-Base creates the most exciting effects. All you need is resin, Cell-Base and at least one additional colourant. Mix. Pour. Wow!

Cell-Base application

1. Mix a batch of clear resin.

2. Pour a portion of your mixture into a mixing cup and add up to 10% Cell-Base. Stir thoroughly.

3. Fill the remaining mixture into one or more mixing cups which have been pre-filled with one or more pigments. Ensure your top colour contrasts to your Cell-Base colour.

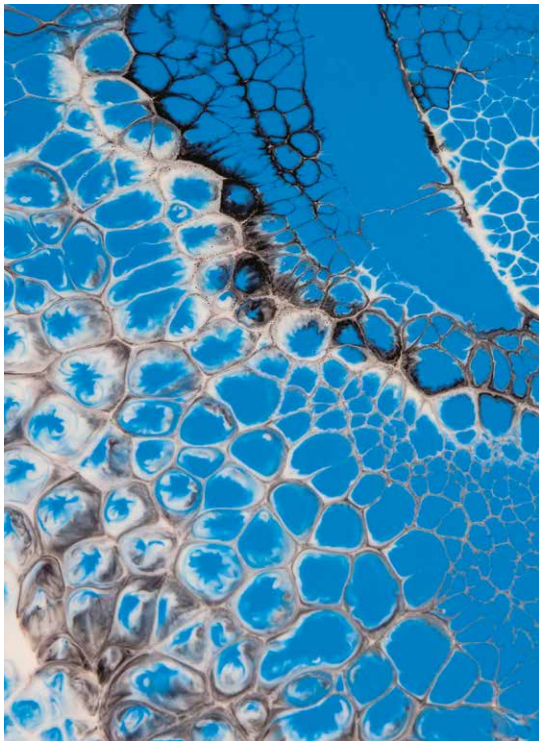
4. Pour the Cell-Base resin mixture onto your substrate. This is your base colour layer. The Cell-Base pigment will be the bottom colour over which you will swipe the top colour/s.

5. Immediately pour the regular pigmented resin mixture onto the base coat. This is your top colour and should be applied in a thinner layer than the base coat.

6. Then, without delay, spread / swipe your top colours across your base colour with a spreader or broad-edge implement. You will see cells forming at once. You can also drag lines in the resin with a small stick and observe cells forming in the wake.

7. Wait 30 to 60 seconds and watch the cells grow and evolve.

8. Finally, you can modify the cells to your liking. Apply heat and encourage even more cells to form. Be careful not to apply too much heat, this will lower the resin’s viscosity (makes it runnier) and you may cause the cells to break open.



ALCOHOL INKS

Discover the fascinating artistic possibilities that our alcohol inks offer you, create impressive colour gradients or try fluid painting and various creative techniques. Our Alcohol Inks can be applied neat or diluted with isopropyl for a paler colour.

IMPORTANT ALCOHOL INK FACTS

- Quick drying and fade resistant. Our Alcohol Inks dry quickly, enabling you to build layers and work faster.
- Specially developed for colouring resin artwork, resin jewellery and fluid painting techniques.
- After drying, the acid free Alcohol Inks are smudge and waterproof, but can be re-liquefied or removed at any time using isopropyl alcohol.
- Can be used on almost all smooth, non porous materials, specially coated papers e.g. Yupo Paper, glass, metal, ceramics, porcelain and stone.
- Can be diluted with isopropyl alcohol.
- Larger than average 30ml bottle.

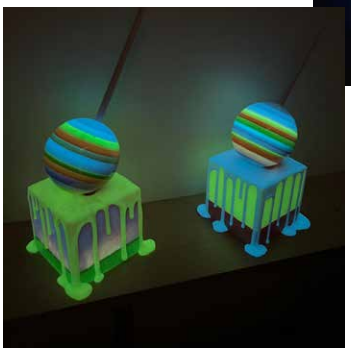
Alcohol Ink application

1. Mix your clear resin, MasterCast 1-2-1 works best for this.
2. Pour some of your clear resin into a mixing cup and add the Alcohol Ink.
3. There are also various possible uses: drip Alcohol Ink from the bottle, apply Alcohol Ink to the painting surface with a brush, dripping onto isopropyl.
4. There is also the option of dripping the Alcohol Inks onto resin or mixing them into other inks.
5. Keep away from naked flames as Alcohol Inks are flammable.

ELI-GLOW Photo Luminescent Pigment

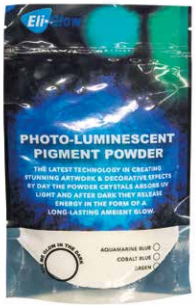
Admire resin art in the dark with

Eli-Glow photo luminescent pigments. The pigments absorb energy from light (sunlight and artificial light). They store the energy and release it again in the dark as an ambient glow.



IMPORTANT FACTS ON **ELI-GLOW** PIGMENTS

- Eli-Glow photo luminescent pigment powder has been especially designed for use with resin.
- It is a very fine powder, which means it has low granularity.



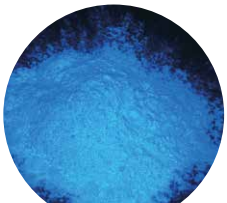
Eli-Glow Photo Luminescent Powder: 100g bag

Eli-Glow Photo Luminescent Pigment application

- Simply mix the Eli-Glow powder pigment into the resin mixture. Due to its fine particle size it will disperse without any problems.
- Use up to 10g of powder (i.e. 10%) per 100g of mixed resin.
- Use photo luminescent pigments in clear or light coloured resin. The visibility of the glow is reduced in a resin that has been pigmented with dark colours.

This is what photo luminescent powders can do. You decide which area of your art glows.

Aquamarine



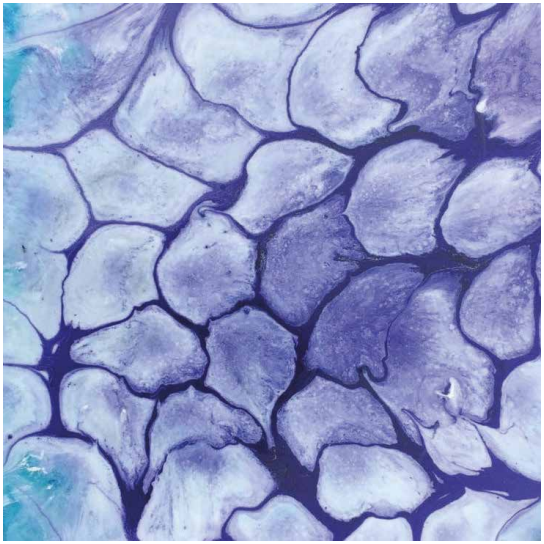
Cobalt Blue

Green

resi-BLAST
– the medium for creating resin cells

Create unique surface effects such as cells, lacing and colour pockets. With resi-BLAST you have all you need. The chemical repelling action between resi-BLAST and resin is the secret process that results in these amazing visual effects.

Apply resi-BLAST in two different ways: Add it directly into the pigmented resin in your mixing cup, or drop it into the resin once poured.



IMPORTANT resi-BLAST FACTS

- resi-BLAST is the perfect medium for all fans of special effects in resin art.
- resi-BLAST results in an instant cell formation.
- resi-BLAST can leave an oily residue on the resin surface if applied excessively. This is normal. Simply wait until the resin has fully cured and then wipe away the residue with a clean, dry cloth. You can use this residue to polish the surface to a high gloss sheen.
- The effects you create with resi-BLAST are not only visible, but also tactile. If you prefer a mirror smooth resin surface simply pour a top coat sealer layer of clear resin to finish. First remove the oily residue left over from resi-BLAST after your artwork has cured.

resi-BLAST is perfect for dirty pouring projects, too. You choose the colours and let resin and resi-BLAST do the rest. You'll be amazed by what can you do!

resi-BLAST APPLICATION

A)
1. Drop resi-BLAST directly into the mixed and coloured resin. You will immediately notice something interesting happening in the mixing cup.

2. Pour the mixture onto your substrate.

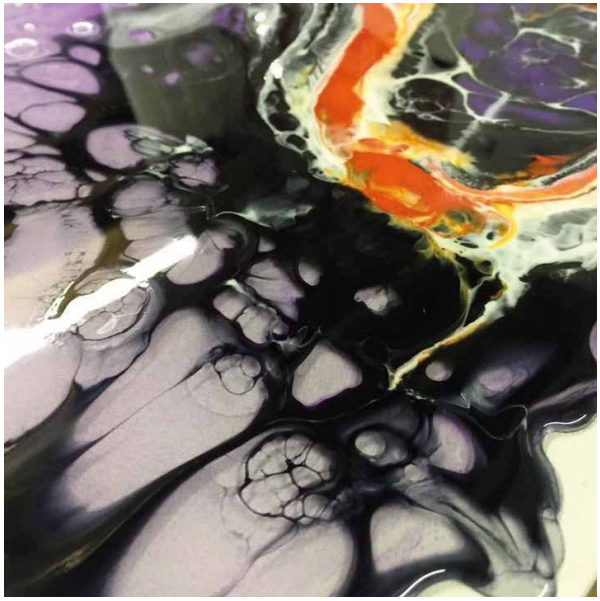
3. Leave resi-BLAST to work on it's own or use a heat gun to create spectacular cells, lacing structures and colour gradients.

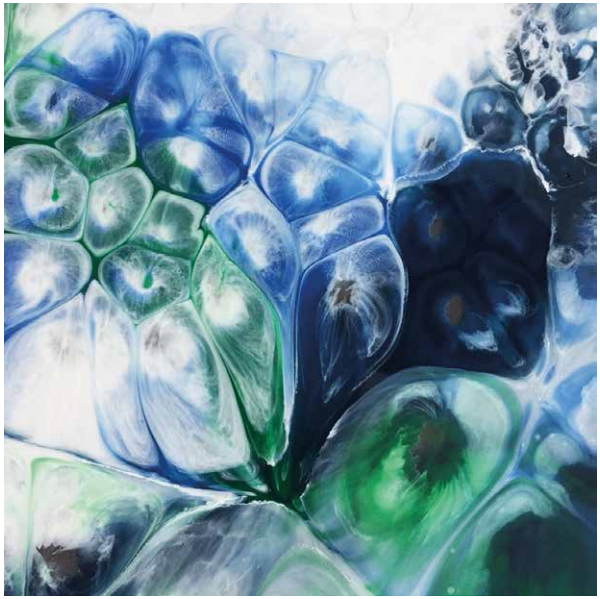
resi-BLAST: 25ml bottle

B)
1. Apply resi-BLAST droplets directly onto the poured pigmented resin.

2. It is important that you apply it in areas with at least two colours to create strong effects. If you drop it onto only one colour, you will receive a monochromatic effect.

3. Timing is also important. Drop resi-BLAST onto your wet resin about five minutes after pouring, that's when the resin will have the right consistency. Applying at the wrong time will result in an oily residue on the resin surface with no cell effects.





You have questions. We have the answers.

Working with resin can be complex and not only beginners will have questions. We have hand-picked some of the popular questions we get asked all the time.

You will find more information regarding the products and their characteristics in this brochure.

You have further questions? Please ask your supplier, they will be happy to help you.

What's the difference between resin and varnish?
The type of resin we use for pouring is more viscous than varnish. A single poured layer of resin is as thick as 40–50 layers of varnish. The application method also differs. Typically varnish is sprayed or applied by brush or roller. Typically Resin is poured and spread, but can also be applied with a roller or paint brush.

Is resin water-resistant?
Yes. Once the resin is fully cured, the surface is inert, stable and totally water-resistant.

What is the best ambient temperature for resin work?
The leaflet that comes with your product will provide you with the exact information. Most products are best to work with in a range from 18–24°C.
At those temperatures resin is at its ideal viscosity, meaning it is not too thick or too runny. As soon as it is exposed to lower temperatures (15°C or less), the resin becomes thicker and harder to work with, it also retains many small microbubbles. This can be remedied with a warm water bath: place the closed bottle in a tub of warm water for 10 minutes. Make sure you have closed the cap tightly – only one drop of water can contaminate and spoil your resin.
It is also important to know that this method will lower the viscosity and shorten the working time.

My resin almost starts to "boil" while I'm mixing it. What am I doing wrong?
This is called exotherm and occurs when the mixed resin is left in a small volumetric space and gets hot rapidly. Mix larger amounts in separate containers and don't leave them too long before applying and spreading across your surface e.g. Instead of mixing two litres at once in one container, mix one litre quantities in their own containers and apply it in thin layers reasonably quickly.

How do I clean my artwork once completed?
Plastic surface cleaners and cleaning cloths for glasses or photos are well suited.
Please do not use glass cleaner or alcohol – the resin surface will become dull and matt over the years. Standard kitchen roll is not suitable as it causes the finest micro-scratches on the surface.

The sides of my substrate will not retain the resin covering. I poured it on, but it gets repelled. What is going wrong here?
The reason is grease, oil from your hands or other contaminant. Ensure your substrate is thoroughly degreased using ethyl alcohol or rubbing alcohol (also known as surgical spirits or denatured alcohol) thinned with water.

Can I pour several layers of resin on top of each other?
Pour as many layers of resin on top of each other as you like or need. There are only two things to consider:

- To determine the depth of each layer, please follow the manufacturer's TDS.
- If you are using the same resin several times, please wait until the resin is touch dry. If you are using a different type or brand of resin, please wait for each layer to be fully cured before adding successive layers.
- Additional layers can be poured within 2–3 days of the first pour. If the piece has been left longer than this, lightly abrade to create a key for the next layer. If in doubt contact our technical team on +44 (0)1483 266636.

Manufacturer
Eli-Chem Resins UK Limited
Unit 212 Dunsfold Park
Stovolds Hill
Cranleigh
Surrey
GU6 8GA
United Kingdom

Phone
+44 (0) 1483 266636
+44 (0) 1483 266637

E-Mail
sales@elichem.co.uk

Distribution Germany and Austria
RESIN KUNST
Stefanie Etter
Fockenberg 1
73635 Rudersberg

Phone
(+49)160-7532103

E-Mail
shop@resin-kunst.de

Supply sources
see back of this brochure

Notice: Not all products are available in every store.

Photos: Aram Friedrich, Nils Hoffmann

ELI-CHEM RESINS

OUR COMMITMENT TO A GREENER PLANET

As Eli-Chem Resins continues to grow, we have an increasing responsibility to commit additional resources in order to maximise the positive impact of our products. Today, we're becoming one of the few ecommerce brands that offset 100% of our carbon emissions generated by getting your orders to your doorstep! All of our orders will now be shipped 100% carbon neutral, so you'll have confidence that when an Eli-Chem package arrives at your door, you'll get something you love, and you'll be proud of the fact that you're taking a small step towards making a big change in the world, actively reducing your carbon footprint.

For every one of our amazing items that ships, we now balance it with a positive environmental impact thanks to our partner, EcoCart. The full environmental impact of getting your favourite resin products to your door is completely neutralised. There will be no additional cost to our customers, it simply gives you the satisfaction of knowing that shopping with us means we are making a positive impact on the planet... together.

- All our orders are shipped carbon neutral. No matter where in the world we ship, we offset our carbon by contributing to projects which meet the United Nation's Sustainability Development Goals and are proven to reduce the amount of greenhouse gases entering the atmosphere. So when you order through us, you'll get something you love, and you'll be part of making a big change in the world.
- All our cardboard outer packaging comes from a FSC® certified manufacturer.
- Better pack design reduces damages. Each time damaged goods are replaced the carbon cost of a transaction doubles.
- All of our resin containers are made from recycled plastic and can be recycled again, by you.
- If we receive cardboard packaging from other suppliers we will try to re-use it and if we can't, we recycle it. We only use compostable packing fillers so use them in your compost bin, or let your youngsters conduct science experiments with them!
- The plastic air sacs we use to protect some of our glass containers are made from recycled PET.
- Our lighting in our warehouse and offices is operated by motion sensors so we are not wasting valuable energy when we don't need it.
- In our offices we recycle everything that we can and are working towards being paperless.

ELI-CHEM
RESINS