Create Resin art

Your ideas, our products!

eli chemresins
POLYMER RESIN SYSTEMS

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. We 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 it's 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.

THIS IS IMPORTANT TO US – **ON YOUR BEHALF**

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!

Aram Friedrich (M.D.)

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 THIS IS 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 it's 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 is 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 3-D 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. We will present you with our current resin product range. We will explain which product is suitable for what and what technical aspects you should pay attention to. You will find important technical features in the overview after the product presentation.

A short overview of Eli-Chems resin systems:

Your resin for coating and design:
MASTERCAST 1-2-1

Your resin for coating and shallow castings:
TOTALCAST

Your resin for covering larger surface areas:
ULTRACAST XT

Your resin for deep fill:
DEEPCAST

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

A good artwork resin will meet the following technical criteria:

- glass clear / water-white
- VOC-free (Volatile Organic Compounds)
- free of solvents, BPA and Nonylphenol
- low-odour
- non flammable
- contains UV stabilizers

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.

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 T.G (Glass Transition Temperature) the resin possesses.

5) Scratch Resistance: Indicates how resistant the resin is to everyday use and protection against scratches and scuffs. Browse further and find out which Eli-Chem Resin is best suited to you. If 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).

Your resin for design:
MASTER CAST 1-2-1

Discover which field of resin art MASTERCAST 1-2-1 is best suited for. Find out which surfaces you can work with it on and learn about it's 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 U.V degradation and yellowing. This is ensured by UV stabilizers, Blockers and Inhibitors. Our products contain UV absorbers and HALS (Hindered Amine Light Stabilisers) and makes use of Cyclo-Aliphatic 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 other additives to 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.

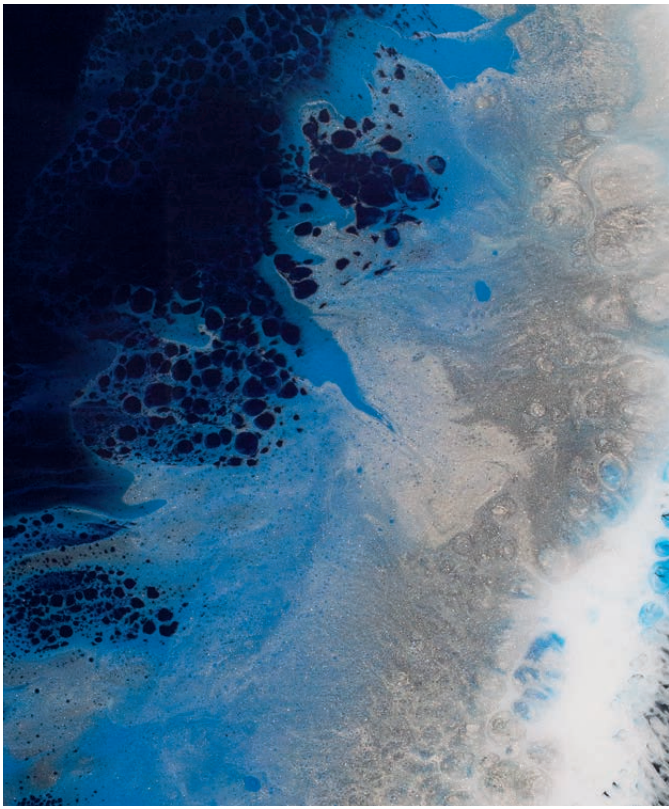
3. Your mixture is ready and you now have 25-30 minutes to process the resin. After that it will become too thick as it starts to gell and harden.

4. You have prepared your substrate beforehand, i.e. it is dust-free, degreased and 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 minimize bubble formation. Any small mixing bubbles can be removed with the heat of a blowtorch or heatgun. Pass heat slowly and gradually over the resin surface in swivelling motion at a distance of approx. 10 cm 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 damp 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 MASTERCAST 1-2-1 in the chart on pg. 14

Your resin for casting projects:
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 and 50kg

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 U.V degradation and yellowing. This is ensured by UV stabilizers, Blockers and Inhibitors. Our products contain UV absorbers and HALS (Hindered Amine Light Stabilisers). TOTALCAST makes use of Cyclo-Aliphatic 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 production of resin jewellery and the shallow embedding of objects.

CHARACTRISTICS

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
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 the desired volume, keep in mind a maximum thickness of 1-2 cm 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 minimize bubble formation. Any small mixing bubbles can be removed with a blowtorch or heat gun. Pass heat slowly and gradually over the resin surface in swivelling motion at a distance of approx. 10 cm 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 damp 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 TOTALCAST in the chart on pg.14

Your resin for large surfaces:
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!
(2:1 mix ratio)

ULTRACAST XT comes in the following pack sizes: 3kg, 7,5kg, 15kg

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 ULTRA- CAST XT becomes a hard and glossy surface after cure. It also offers the best possible protection against premature yellowing. This is provided by UV stabilizers: 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.

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 minimize bubble formation. Any small mixing bubbles can be removed with a blowtorch or heatgun. Pass heat slowly and gradually over the resin surface in swivelling motion at a distance of approx. 10 cm 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 damp 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 pg. 15

Your resin for high fillings:
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 3-D 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: 1,5kg, 3kg, 7,5kg, 37,5kg, 600kg

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 Deep-Cast becomes a hard and glossy surface after cure. It also offers the best possible protection against yellowing. This is ensured by so-called UV stabilizers: Our products contain a UV absorber and HALS (Hindered Amine Light Stabilizer).

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 layer height of 5cm or more.

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 absence of 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. Your mixture is prepared and you now have 10 hours to process the resin. After that it will become too thick and start to harden.

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 it when it is 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 does not contain an accelerator. Therefore, both the pot life and the curing time for this resin are significantly longer than for other resins in our range. You can find the data in the following chart:

Find further technical data regarding Eli-Chem DEEPCAST in the chart we have prepared in this brochure.

	MASTERCAST 1-2-1	TOTALCAST
Resin and hardener mixing ratio	1:1 by volume 1:0,9 by weight	1:1 by volume 1:1 by weight
Viscosity	4.400–4.700 mPa.s*	3.300–3.500 mPa·s*
Components	Resin and hardener	Resin and hardener
Pot-Life (processing time)	25–30 minutes at	15–20 minutes at
Temperature	22 °C	22 °C
Heat resistance after curing process	up to 45–50 °C	up to 45–50 °C
Thickness (1 layer)	up to 5 mm (max. 2 kg in one pour)	up to 20 mm (max. 3 kg in one pour)
Curing time	6–8 hours at 22 °C	3–4 hours at 22 °C
Fully cured	5–7 days	5–7 days
Shelf life	unopened 24, opened 12 months	unopened 24, opened 12 months
Frost resistace of the containers (fluid components)	yes	yes
Frost resistance of the cured resin	yes	yes
No VOCs	yes	yes
Contains UV-protection: Absorber + HALS	yes; good UV-protection	yes; very good UV-protection
Food safety**	yes	yes
Scratch resistance	moderate	moderate

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

ULTRACAST XT	DEEPCAST
2:1 by volume 2:1 by weight	2:1 by volume 2:1 by weight
1.500–1.600 mPa·s.*	800–1.100 mPa·s.*
Resin and hardener	Resin and hardener
up to 80 minutes at	up to 10 hours at
22 °C	22 °C
up to 80–90 °C	up to 50–60 °C
up to 25 mm (max. 3 kg in one pour)	up to 50 mm (max.12 kg in one pour)
24 hours at 22 °C	3–4 days at 22 °C
5–7 days	21 days
unopened 24, opened 12 months	unopened 24, opened 12 months
yes	Do not store under 10°C, the product may crystallize. Placing the bottle in hot water will reverse the crystallisation.
yes	yes
yes	yes
yes; very good UV-protection	yes; very good UV-protection
yes	yes
high	high

**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

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)

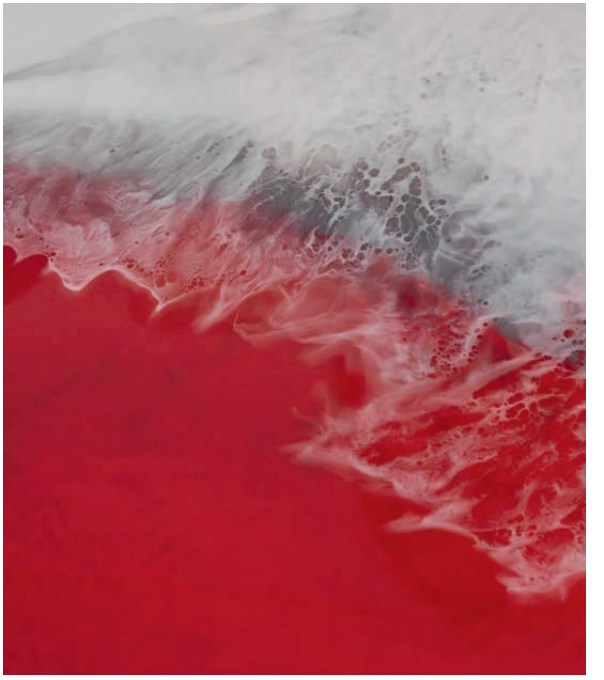
Resi-TINT+ METAL
(powder pigment)

Cell-Base
(paste pigment)

Eli-Glow
(powder pigment)

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.

You won't find this mentioned constantly in this brochure, but we do strongly 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 200 ml resin mixture you only need an addition of 2-5 g 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 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

Granite Grey, Slate Grey, Blackout, Titanium White, and 20 additional colours

Available in two sizes and many colours.

resi-TINT MAX: 50g pots 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 color 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-TINT with resi-TINT to obtain the desired shade.

Brilliant Yellow
Flame Orange
Scarlet
Flame Red
Magic Magenta
Violet Vigour
Scarlet
Purple Rain

Royal Blue
Sea Blue
Marine Blue
Turquoise
Emerald Green
Pine Green
Lime Green

Light Grey
Dark Grey
Black
White

resi-TINT: 29ml glass bottle with dropping pipette

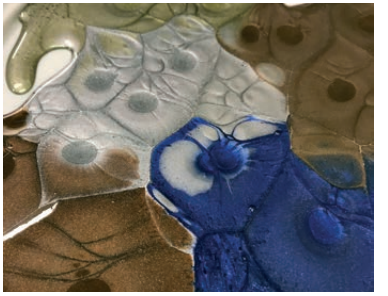
resi-METAL Metallic Powder

resi-METAL is a range of solvent-free metallic colour 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



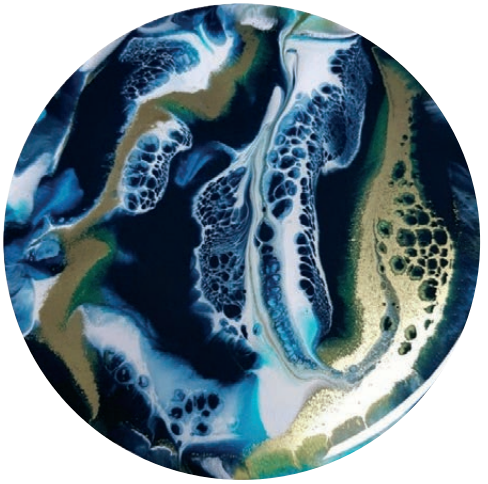
- Pre-polymer pigments have a high viscosity and therefore have present a syrup-like consistency.
- They are highly concentrated, so you only need a small amount to colour your resin: For a 100ml resin blend you need only 2-5g resi-METAL.
- Resi-METAL paste pigments don't fade as easily as conventional 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+ METAL Metallic Powder

Resi-TINT+METAL powder pigments resi-TINT+ invokes a metallic finish on the surface of your artwork. 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+METAL

resi-TINT+ application

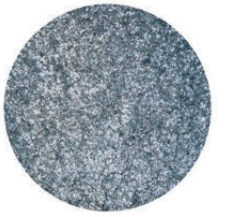
- Add a small amount of resi-TINT+ to your clear resin mixture. Dispersion is rapid and uniform.
- Sprinkle or lightly blow a small amount of resi-TINT+ over the surface of your poured resin while it is still in the fluid stage. Spread with heat from a heatgun or blowtorch and watch the leafing effects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

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

Richgold

Copper

Rosegold

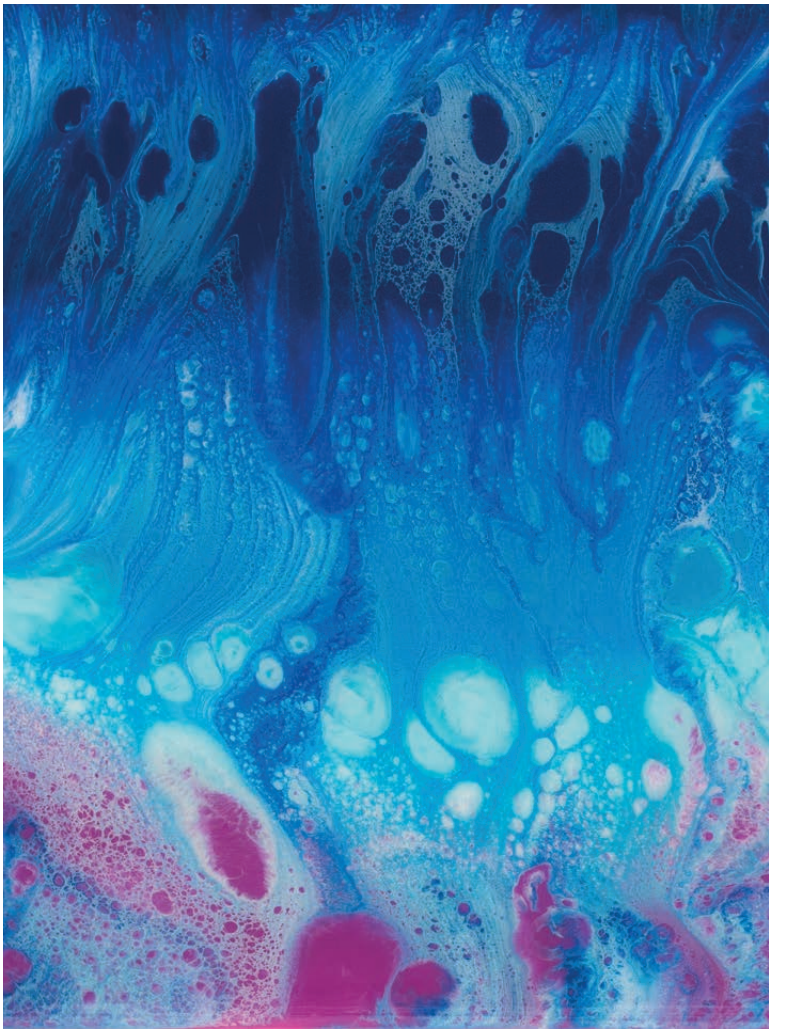


Aluminium

CELL-BASE Instant Cell Creator

Cell-Base is our latest development, 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 jar



Lapis Blue | Cornflower Blue | Teal | Juniper | Purple Envy | Coral Pink | Poppy Red | Shadow Grey | Polar White | Pitch-Black

IMPORTANT **CELL BASE** FACTS

- Cell-Base has been especially developed for use with Eli-Chem Resins MASTERCAST 1-2-1. In terms of viscosity, density and curing schedule, this resin is ideally suited for Cell-Base projects. Results may vary if you use a different resin.

- 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.

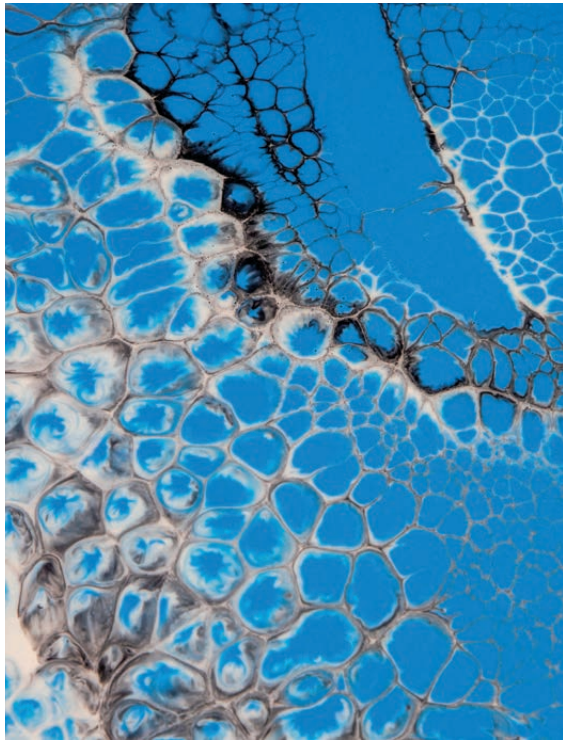
4. Pour the Cell-Base resin mixture onto your substrate. This is your base colour layer. The Cell-Base pigment will be the bottom colour over which you will swipe the top colour/s.

5. Immediately pour the regular pigmented resin mixture onto the base coat. This is you 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.



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.

A piece of art by day.

IMPORTANT FACTS ON **ELI-GLOW** PIGMENTS

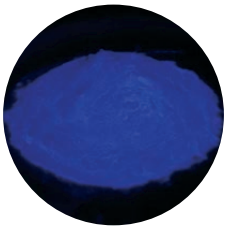
- Eli-Glow fluorescent pigment powder has been especially designed for use with resin.
- It is a very fine powder, which means it has low granularity.

Eli-Glow Luminescent Pigment: 100g bag

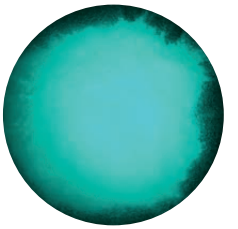
Eli-Glow Luminescent Pigment application

- 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 10 g of pigment (i.e. 10 %) per 100ml of mixed resin.
- Use 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.

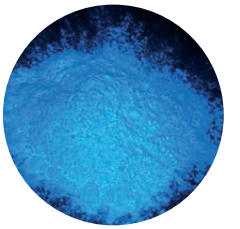
Larger photo: The same artwork by night. This is what luminescent pigments can do. And you decide which part of your art glows.



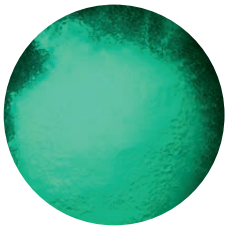
Violet



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 resi-due 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. Manipulate the resulting effects if you want, either by use heat 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 into 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.

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.

Bone | Charcoal | Dolphin Grey | Dune | Evergreen

Graphite | Masala | Mercury Grey | Moroccan Blue | Nickel Grey

Ocean Blue | Pacific Blue | Sand Dollar | Shale | Sky Blue

Turquoise | White

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 (20mins) 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. Test the consistency if you are unsure it hold itself vertically without slumping then 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.

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. Then 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 working time (pot life) for resi-CRETE is approximately 30 minutes. After that the paste will start to cure and dry out. It is fully cured after 2-3 hours (at 23 °C). This applies to mixing with acrylic emulsion. When mixing with resin, the curing time of the resin will determine the overall drying time.

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 and 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, skin 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.

IMPRINT

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