









is a UV stable clear hybrid polymer

This formulation utilises the most up to date raw materials available to provide a non toxic, odour free and user friendly resin system.

With all industrial chemicals the user should always observe good industrial hygiene. This includes the wearing of gloves, long sleeved clothing and eye protection.



#### **Eli-Chem Resins UK Ltd**

212 Dunsfold Park, Stovolds Hill Cranleigh, Surrey GU6 8GA, United Kingdom

**T** +44 (0)1483 266636/7

- **M** +44 (0)7711 669607
- E sales@elichem.co.uk
- www.elichem.co.uk
- facebook.com/elichem
- o instagram.com/elichemresins

\*Many more images and examples are available to view on our **facebook** page.



Clear Artwork and Casting Resin







# Performance & Specification



2 kg kit



- Commonly used to seal and protect artwork, paintings, sculptures etc.
- Easy to use, cures at ambient temperature and is self levelling.
- The resin is non flammable, odour free and has no solvent content.

## MIXING RATIO: By volume 1:1

**NOTE:** The mixing ratio must be accurately followed. It is not possible to change the ratio. This would result in lower mechanical properties and the resin not drying properly. The mixture should be thoroughly stirred (mix for 3-4 mins) to ensure full homogeneity. Polymer systems tend to heat up much faster in a pot than as a thin film. Therefore mix only the necessary amount usable within the given pot life.

## **APPLICATION:**

The system can be applied by hand pouring or by brush/roller. The resin can be tinted any colour with the addition of polymer pigments available in all solid and translucent colours. We recommend our resi-TINT range.

Mix in the ratio of 1:1 (by volume) until it is a uniform colour & consistency (usually 3-4 mins).

**Level:** Ensure your piece is perfectly flat and level, otherwise the resin will run to the lowest point and "pool" in the centre, leaving too little resin at the corners. On large canvas paintings/pictures you should tighten the canvas as much as possible or place a board underneath to support it uniformly.

**Bubbles:** 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 (e.g. using a blowtorch or hot air dryer on slow speed setting).

**Blowtorch:** Don't hold the blowtorch or hot air blower closer than 30cm to your artwork otherwise you risk creating ripples and dimples in the resin finish.

**Dust:** You will need to protect the piece from dust accumulation for at least 8-12hrs. You can do this by using a dust sheet or a box to cover the piece.

**Cleaning:** All mixing containers and tools can be cleaned with acetone or cellulose thinners.



VISCOSITY: Resin: Hardener: Mixed Viscosity:	18°C (65°F) 4500 – 5000 mPa.s 2700 – 2800 mPa.s 3300 – 3500 mPa.s	25°C (77°F) 4000 – 4500 mPa.s 2200 – 2300 mPa.s 2800 – 3000 mPa.s
COLOUR:	Resin: Hardener:	Clear – Transparent Clear – Transparent
SPECIFIC GRAVITY:	23°C (73°F) Resin: Hardener:	1.05 – 1.10 g/cm <sup>3</sup> 0.94 – 0.96 g/cm <sup>3</sup>
MIXING RATIO:	By Weight 100 parts Resin 100 parts Hardener	By Volume 100 parts Resin 100 parts Hardener
COVERAGE:	(applied 0.5 mm thick) 1.5 m² per litre mixed resin (based on a self levelling layer 0.5mm thick)	
PRACTICAL WORKING TIME: (250 g mixed resin):	23°C (73°F) 10 – 15 Minutes	25°C (77°F) 10 – 12 Minutes
GELTIME: (250 g mixed resin) (5 mm casting) (2 mm coating)	23°C (73°F) 15 – 20 Minutes 55 – 60 Minutes 65 – 70 Minutes	25°C (77°F) 20 – 25 Minutes 40 – 45 Minutes 40 – 45 Minutes
SETTING TIME: (250 g mixed resin): (5 mm castings) (2 mm coating)	23°C (73°F) 40 – 45 Minutes 4 – 4½ Hours 4½ – 5 Hours	25°C (77°F) 40 – 45 Minutes 3½ – 4 Hours 4 – 4½ Hours
TOUCH DRY:	23°C (73°F) 4 – 5 Hours	25°C (77°F) 4 Hours
HARDNESS: Cured 24 Hours / 25°C (77°F) Hardness at 60°C (140°F)	Shore D: Shore D:	70 – 75 30 – 35
MINIMUM APPLICATION TEM	PERATURE:	5°C (41°F)
HEAT RESISTANCE:	T RESISTANCE: Suitable for applications up to 50°C (122°F)	
TENSILE STRENGTH:	(Din 53455)	38 MPa
FLEXURAL STRENGTH:	(Din 53452)	65 MPa
COMPRESSIVE STRENGTH AT	<b>YIELD:</b> (Din 53454)	24 MPa



4 kg kit



10 kg kit

ELONGATION: 9 %

IMPACT STRENGTH: (Din 53453) 3.5 kJ/m²

CHEMICAL RESISTANCE: Good: resistance against water

Fair: resistance against diluted acids and alkalines

Poor: resistance against most solvents (individual tests are recommended)

(marvidae

#### **PROPERTIES AND USES:**

total **CAST** resin produces an optically clear, high gloss and tough coating with good impact and abrasion resistance. The excellent clarity and transparency makes the resin system particularly suitable for the protection and decoration of:

- Artwork (paintings, sculptures and layered collage)
- Tabletops and bar counters
- Badges, emblems and jewellery manufacture
- Flower setting and paperweights

**STORAGE:** Shelf life is one year in sealed containers as provided. Keep containers sealed and away from heat or cold.

**HEALTH & SAFETY:** Although the resin is user friendly it is advisable to follow good industrial hygiene e.g. wear gloves & long sleeved clothing, don't eat or drink when working with the resin. SDS available on request.