

## Artists Resin

### for Lacing, Creative Colouring, and Art Work.

**LuciClear Artists Resin** is formulated specially for epoxy resin art. LuciClear Artists Resin is an easy to use, medium viscosity, fast curing, self levelling epoxy system. Your art piece will have a crystal clear high gloss glass like finish. It can be applied over many surfaces, some may need preparation.

Lacing, cells or multilayer colour effects are easy to do, the formulation has been optimised to minimise pigment dispersion prior to the resin gelling. Bubble free results are easy.

### Features

- Rapid cure
- Surface bubbles easily removed..
- Minimal pigment dispersion.
- Easy to measure and use.
- Minimal shrinkage
- Spectacular clarity.
- Air temps from 15°C to 30°C
- Australian Made
- Vacuum chamber is not needed to prevent bubbles being incorporated.
- Does not require use of a pressure pot.
- Minimal fumes. Very low vapour pressures at normal temperature
- Resists UV
- Unlimited shelf life
- Australian Formulated

### Temperatures

Epoxy systems are temperature sensitive. LuciClear Artists Resin is normally applied in a thin layer (up to 1/2 mm thick, and so the ambient (air) temperature controls the reaction speed. For each 9 °C that the ambient temperature increases, the time the resin system takes to gel and to cure will halve.

### Post Curing - Hot Coffee Cups

Epoxy systems soften at elevated temperatures. Systems cured at room temperatures will soften at 50-55 °C. If the item is warmed to 75 to 80 °C for 3 hours, the temperature at which it softens will increase to 75-80 °C. This should be done if a hot coffee cup might be put on the item. A car parked in the sun on a hot summer day with windows closed can be an easy way to do this.

### UV (Sunlight) Exposure

LuciClear Artists Resin incorporates UV absorbers which provide significant protection from UV degradation. UV causes yellowing and with more exposure chalking of the surface. No epoxy system on its own can withstand extended exposure to sun light. LuciClear Artists Resin is as UV resistant as is readily possible.

### Colouring

A wide range of colourants are compatible with LuciClear Artists Resin. In general, anything which works satisfactorily in an epoxy system, a polyester system or an oil paint system will be satisfactory.

**Boatcraft Epoxy Tints** (In Black, White, Red, Yellow, Green, Blue). Very intense and very good light fastness. Can be diluted down (using LuciClear Resin) to produce a less intense colour.

**Tint Powders, Glitters**, etc. Generally work well. May need an intermediate dilution to get even dispersion.

**Epoxy Guru Tints** come in 40 shades.

**Acrylic Inks** (note NOT ACRYLICS which contain water.) **Liquitex Acrylic Ink** works well and has 32 shades. Artists Oil Paints (from Spotlight, Lincraft, Riot Art Supplies, Eckersley's etc). Much less intense but widely available.

Spirit based stains. e.g. Feast Watson Proof Tints. Earthy and Brown colours. May not be light fast.

Alcohol Dyes. Wide range of colours available. May not be light fast.

For artistic effects, things which are more or less incompatible can give interesting effects. Silicone Oil can produce great cells. Isopropyl Alcohol is also said to produce cells.

**Items in Bold are available from Boatcraft Pacific and its resellers.**

### Caution regarding Sandpaper.

Some sandpapers are coated with a wax (sterate) which helps the dust to release from the paper. This wax can contaminate epoxy systems and cause adhesion and levelling problems. Few sandpaper manufacturers disclose it. Black Wet n Dry is safe, as is red brown Garnet type paper. Diablo paper (bright red) causes serious problems as does Mirka Abranet (grey).

**www.luciclear.com.au**

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## Properties

<b>Resin</b>		
Viscosity at 25°C	3250	mPas ISO 3219
Specific Gravity	1.16	g/cm3
Flash point	195	°C
Solids content	100	%
<b>Hardener</b>		
Viscosity at 25°C	150	mPas
Specific Gravity	1.0	g/m3
Flash Point	218	°C
Solids Content	100	%
<b>Mixture</b>		
Mix Ratio	2 Resin: 1 Hardener	By Volume
Mix Ratio	100 Resin : 43 Hardener	By Weight
Initial Viscosity	2100	mPas
Pot Life Ta 25°C	15	Minutes typical, 150ml in a cup
Gel Time Ta 25°C	30	Minutes typical, Thin Film
S.G. Cured Product	1.1	Typical
Minimum Curing Temperature	15	°C
Hardness at 4 days Room Temp	82	Shore D Typical
Heat Deflection Temp	53-55	°C Room Temp Cured
	75-80	°C Room After 80 °C Post Cure
Shelf Life	2+	Years

## Availability/Packaging

375 ml, 750 ml, 1.5 Litre boxed kits include resin hardener mixing cups, mixing sticks, gloves and instructions

3 Litre, 6 Litre, 12 Litre and 30 Litre kits with Resin and Hardener

Pumps are available for 3 litre and larger kits.

Bote-Cote pigments, Epoxy Guru mica flake pigments, Liquitex Acrylic Inks

## Precautions/First Aid

### Precautions

- Wear eye protection. This is important.
- Wear protective gloves. Ordinary latex gloves give acceptable protection.
- Do not mix large quantities (more than can be used in 10 to 15 minutes).

**CAUTION** Larger quantities in a mixing container will exhibit exothermic heating leading to more rapid gelling and curing. In extreme cases, a large amount left in a mixing container for 10 minutes or so may become very hot and even start to smoke. Users should apply the resin to the work piece promptly after mixing.

### First Aid

- Ingestion **IF SWALLOWED:** Drink large quantity of water. Seek medical assistance.
- Eye Contact **IF IN EYES:** Rinse opened eye for several minutes under running water. Remove contact lenses if present and easy to do so. Seek medical assistance.
- Skin Contact **IF ON SKIN:** Remove with Citrus based hand cleaner with pumice or vinegar followed by plenty of soap and water. If skin irritation occurs: Seek medical advice/attention. Take off contaminated clothing and wash before reuse.

### Cleanup

- Paper towels with acetone or methylated spirits for uncured materials. (Do not apply to skin).

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