Product Data Sheet:

BioCast

Biomass enhanced clear artwork resin

500g, 1kg, 2kg, 4kg

Eli-Chem BioCast represents the latest technology and chemistry, it has the highest content of carbon from plant-based material we could achieve without compromising on performance.

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. 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).

HOW TO USE IT:

MIXING

Mixing Ratio: By Volume: 100 parts resin to 100 parts hardener. By Weight: 100 parts resin to 90 parts hardener. 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 must be thoroughly stirred to ensure full homogeneity. 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 & consistency (usually 3-4 mins).

APPLICATION

Apply by hand pouring or brush/roller. The resin can be tinted any colour with the addition of polymer pigments available in all solid and translucent colours.

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.

LEVEL cont...

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 with a blowtorch or hot air dryer on slow speed settings. Do not hold closer than 30cm to your artwork otherwise you risk creating ripples and dimples in the resin finish. If you use alcohol inks DO NOT use a flame to remove the bubbles, as alcohol is flammable.

DUST: You will need to protect the piece from dust accumulation for at least 12-24 hours. You can do this by using a dustsheet or a box to cover the piece.

SUBSTRATES

Canvas, wood, MDF, glass, Perspex, concrete and metal.

CURING TIME @ 22°C

Touch dry – 5-6 hours
Full chemical cure – 5-7 days
Pot Life – 40 mins

HARDNESS

Shore D 75

SHELF LIFE

1 Year in sealed container.

STORAGE

Store in a cool dark place

HEALTH AND SAFETY

Refer to the Material Safety Data Sheet for information on correct handling and application of the product.