

## Product Data Sheet:

### DEEP CAST (CER) Crystal Clear Epoxy Casting Resin

750ml, 1.5L, 3L, 7.5L, 37.5L



**Eli-Chem Deep Cast (CER) has been specifically formulated for deep casting in one pour making it ideal for resin river tables, also known as resin live edge tables.**

Deep Cast is an unaccelerated clear epoxy casting system which offers a long, open time for bubble removal and precise article placement. It also avoids high exothermic reaction and the resulting shrinkage after curing.

- Perfect for resin river tables
- Inbuilt UV inhibitors
- Water clear casting resin
- Mix and pour up to 12 litres or up to 50mm deep in one pour
- Ideal for decorative castings, river tables and making paperweights

#### HOW TO USE IT:

##### Mixing

The mixing ratio must be accurately followed to achieve perfect results. It is not possible to change the ratio as this would result in the resin not drying properly and lower the mechanical properties. 2 parts resin to 1 part hardener by volume provides a hard casting once cured. Pour the hardener first and then the resin. The mixed components should be thoroughly stirred for 3-4 minutes to ensure an even consistency. Epoxy systems tend to heat up in a pot than as a thin film, only mix the amount needed for use within the pot life of the product. The maximum volume that can be poured in one go is 12 litres or up to 50mm in one pour. The mixed resin can be tinted with our resi-TINT MAX pigments, resi-TINT pigments, resi-METAL or resi-TINT+ Metallic Powders to make your artwork shine.

#### Application

The mixed product can then be poured into a 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 18-25°C, humidity level below 70%. A 2:1 mix will provide a hard casting suitable for manufacture of fancy shapes, decorative items etc. Should a new mix be applied onto cured resin, the contact surface should always be sanded in order to enhance adhesion. Once the resin is mixed and poured into the mould, gently pass warm air from a heat gun or hair dryer on the slowest speed setting. This will assist in removal of any bubbles generated during mixing. If you use alcohol inks DO NOT use a flame to remove bubbles.

#### MECHANICAL & PHYSICAL PROPERTIES @ 18°C:

- |                     |                            |
|---------------------|----------------------------|
| • Pot Life          | 10 hours (500g mixed mass) |
| • Can be de-moulded | 3-4 days                   |
| • Full Cure         | 10-14 days                 |
| • Mixing Density    | 1:1                        |
| • Mix ratio         | 2:1                        |
| • Hardness          | 95 Shore D (2+1 mix)       |
| • Tensile strength  | 66 MPa (2+1 mix)           |
| • Flexural strength | 105 MPa (2+1 mix)          |

#### SHELF LIFE:

One year in sealed containers. Keep containers away from heat or cold.

#### SAFETY:

Wear goggles and gloves, work in a well ventilated room. Refer to the Safety Data Sheet for full information on correct handling and application of the product.

Our resins are 100% synthetic, they DO NOT contain animal parts or any organic content. No testing is done on animals whatsoever. Our resins are Vegan friendly and cruelty free.