

Product Data Sheet:

FASTCAST NATURAL RAPID SETTING CASTING RESIN

1kg & 2kg kits

Beige



Eli-Chem's FastCast NATURAL is a quick curing casting resin. It is an unfilled two component resin that sets rapidly in approximately 10 minutes. With an easy 1:1 mix ratio by volume or weight, this system has a 2-3 minute working time and a demould time of 10-15 minutes. Applications and attributes:

- Casting of art & craft articles e.g. figurines, coasters, candleholders and general homeware items
- Suitable for resin art applications
- Excellent detail reproduction
- High quality of surface detail reproduction
- Low shrinkage and good dimensional stability
- High mechanical strength
- Very short demould time

Mix and pour in the usual way. We recommend pigmenting the resin as the default colour is beige/brown. When pigmenting, non water-based pigments MUST be used as FastCast is a polyurethane resin and therefore will react with water or humidity present, to foam and froth. Eli-Chem recommends using powder pigments or epoxy paste pigments only, such as our resi-TINT MAX NEON or resi-TINT MAX ranges.

HOW TO USE IT:

Mixing

A white settling can occur in the FastCast bottles-don't worry, it's normal and a desiccant powder which is used as a moisture scavenger! Simply shake bottles well prior to mixing to ensure optimal performance.

Mix in ratio of 1 : 1 by volume or weight e.g. 100g resin to 100g hardener. The mixing ratio must be accurately followed. It is not possible to change the ratio as this would result in lower mechanical properties and the resin not curing properly. Have all equipment set up prior to mixing to ensure you work within the curing window.

To colour FastCast, add selected pigments to the resin before adding the hardener.

Add the hardener to the resin and mix by hand using a flat edged tool for 1-2 minutes only. The exothermic reaction will commence, and the mixing container will start to feel warm. Regularly scrape the sides, base and corners of the mixing vessel to ensure full homogeneity.

Application

Step 1: Pour into silicone or latex mould for fast demoulding. Alternatively pour evenly across a flat surface for resin art applications.

Step 2: The mixed resin will start to thicken after 5-6 minutes after mixing. You can also feel this very easily as the mixing cup gets quite warm- don't worry though, this is normal and your mixture will not boil or burn.

Step 3: Pop any mixing bubbles with a heat gun. There is a very short window after thickening starts and the resin becoming solid. This resin is touch dry after about 10-15 minutes.

SAFETY:

FastCast has very low toxicity at ambient temperatures. However, standard good industrial hygiene must be observed. Wear goggles, gloves and work in a well ventilated room. Wear a respirator when sanding cured resin to avoid dust particle inhalation. Avoid skin contact (if there is contact wash thoroughly with soap and water). Do not eat, drink or smoke whilst working. Refer to the Safety Data Sheet for full information on correct handling and application of the product.

Product Data Sheet:

FASTCAST NATURAL RAPID SETTING CASTING RESIN

1kg & 2kg kits

Beige



MECHANICAL & PHYSICAL PROPERTIES:

approx. values

Viscosity @ 25°C:	Resin: 70mPa.s Hardener: 60mPa.s
Mixing Ratio:	1 : 1 by volume or weight
Colour:	Resin: Clear Hardener: Brownish (must be pigmented)
Specific Gravity:	Resin: 1.05g/cm ³ Hardener: 1.1g/cm ³
Shore hardness (24h @ 25°C)	Shore D: 70
Working Time @ 20°C (100g mixed mass)	2-3 minutes
Touch Dry @ 20°C	10 minutes
Heat Resistance:	Maximum 70°C

NOTICE:

The technical specification and/or our technical advice whether verbal, in writing or by trials is given in good faith and based on our test results obtained but without warranty. It does not release the user from the obligation to test the products supplied by us or any third party as to the suitability for the intended application.

The application, use and processing of the products are beyond our control. Eli-Chem Resins legal obligation in respect of any sale of its products shall be determined by the terms of its conditions of sale.

SHELF LIFE/STORAGE:

One year in sealed containers. Keep containers away from heat or cold. Once the containers have been opened and the hardener exposed to air, crystallisation can occur which will reduce the shelf life.

Containers must be tightly closed after use to prevent moisture ingress.