

Product Data Sheet:

RAPIDO

INSTANT SETTING CASTING RESIN

500g kits

Beige



Eli-Chem's Rapido is a completely different way of working with resin. Rapido is an unfilled two component resin that sets rapidly to create 3D pours mid flow.

Mix and pour in the usual way, but this is where the similarities to traditional resins end. Rapido sets extremely quickly so you can create amazing three dimensional sculptures in seconds! Break new ground in resin art with this unique resin. Create cup art, frozen waterfalls and sculptures of any shape. Rapido changes its consistency very quickly from liquid to gel to hard. Embellishments can be added immediately after pouring onto the cast Rapido resin, e.g. small crystals, mirrors, glitter or semi-precious stones. We recommend pigmenting the resin as the default colour is beige/brown. Non water based pigments should be used to avoid a frothing appearance.

HOW TO USE IT:

Mixing

MIX BY WEIGHT ONLY Mixing Ratio 1 : 1 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 Rapido, add selected pigments to the resin before adding the hardener. Use epoxy pastes (resi-TINT MAX is ideal), mica powders or any other non-water-based pigment. Do not use acrylic inks or acrylic paints. Add the hardener to the resin and mix by hand using a flat edged tool for 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: If you want to include a mixing cup in your artwork, then leave the mixture in this cup. If you want to "pour" another vessel, then pour your RAPIDO mixture into it now.

Step 2: The mixed resin will start to thicken 30-60 seconds 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: Keep checking for when the resin starts to thicken. There is a very short window after thickening starts and the resin becoming a solid. As soon as your Rapido mixture has started to thicken you can pour it. Rapido gels very quickly, within seconds. Pour to create your structure quickly before it stops flowing. We suggest one or two trial runs to get a feel for the product.

Step 4: Support any vertical shape for 5-10 minutes to make sure everything stays in place. This resin is touch dry after about 15 minutes.

SAFETY:

Rapido 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.

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MECHANICAL & PHYSICAL PROPERTIES:

approx. values

Viscosity @ 25°C: Resin: 600-700mPa.s
Hardener: 200mPa.s

Mixing Ratio: 1 : 1 by weight

Colour: Resin: Clear
Hardener: Brownish (must be pigmented)

Specific Gravity: Resin: 1.00g/cm³
Hardener: 1.20g/cm³

Shore hardness (24h @ 25°C) Shore D: 60-70

Pot Life @ 25°C 20-60sec after 2mins mixing
(pigment dependent)

Gel Time @ 25°C 45-60sec after 2mins mixing
(pigment dependent)

Setting Time @ 25°C 60-90sec after 2min mixing
(pigment dependent)

Flash Point: >200°C

Heat Resistance: Maximum 60°C

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.

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.