

ArtCast Slow Epoxy Resin

ArtCast Slow is a very low viscosity Epoxy Resin, designed for casting, encapsulation and other creative applications. This product has been designed to give an outstanding hardness and high clarity for small castings up to 1000ml in volume. Great for earrings, key chains, prototyping and much more.

ArtCast Slow can be used as a clear casting, or can also be tinted with JustResin Pigment Pastes, Powders, Glitters and Inks.

Characteristics

- Measure by volume 3:1
- Self-leveling
- Great air release properties
- UV Resistance
- Low in VOC's
- Very Low Viscosity
- Great Hardness once cured

Typical Applications

- Castings
- Filling voids in timber
- Doming
- Fast prototyping
- Small keychains
- Jewellery casting

Physical Properties	Part A Resin	Part B Hardener
Viscosity cPs @ 25°C	300 - 600	80 - 150
Colour	Clear to Light Yellow	Clear to Light Yellow
Density Part A @ kg/m ³	1.16 – 1.18	0.97 – 1.00
Shelf Life	>12 months	>12 months [^]

[^]Product can start to change colour after 8 months.

Product information

Mixing Ratio – by volume	100 parts resin : 33 parts hardener
Ideal pouring temperature	22 - 25 °C
Potlife / Working time	<40 mins*
Pouring depth	20mm*
Cure Time / Demould	<24 hrs
Full Cure	<7 days
Flash Point	>110 °C
Cured Hardness, Shore D @ 7 days	86 - 90

*Note – Subject to storage, weather, humidity, mass and other unforeseen factors.

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Application

Use a clean calibrated mixing vessel, pour the contents into the container, and mix thoroughly for at least 3-4 minutes, or until both parts are completely combined. No stringy bits are to be seen. Scrape sides and bottom of vessel throughout mixing process. Mix slowly to reduce bubbles from forming. Material can be split into smaller mixing vessels to incorporate pigments. Material can be poured in chosen design. Air bubble release is enhanced with the use of a hair dryer, heat gun or small butane torch. Hold the heat source approximately 10-15cm away from the project, and keep moving the device in a sweeping motion across the project. Allow to cool, and gently sweep over the piece again if required within the working time. Remove any dust particles with tweezers, cover and let cure in ideal ambient temperatures between 22 and 25°C.

Pigments

The use of any Just Resin pigment can be used in conjunction with this product.

- Pigment pastes <10%
- Pigment powders <20%
- Inks <10%
- Glitters <10%

Cautions

- Cure time cannot be altered by adjusting the resin to hardener ratio.
- Stir the material slowly to reduce air bubbles being created.
- Inadequate mixing will lead to curing issues.
- Leaving combined epoxy in a mixing vessel for a prolonged period can accelerate curing and cause an exothermic reaction.
- When the relative humidity exceeds 80%, the surface of the cured product can absorb moisture and the finish may not appear to be glass-like. We suggest a fully controlled environment if coating in these conditions.

Storage

Can be kept for greater than 12 months, if kept in original containers, with lids tightly closed.

Product to be stored in a dry dark room/cupboard at temperatures between 15 and 30°C, and out of direct sunlight.

If the materials have been stored at temperatures below 15°C for a prolonged period, crystallisation may occur, ensure to condition both parts of material at 25-30°C to reduce viscosity and assist in air release.

Safety

Please refer to the Materials Safety Data Sheet before use, and for more information.

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