

Product Name

CLARITI™ PRO - EPOXY CASTING SYSTEM

Product Description

CLARITI™Pro is an epoxy resin system specifically designed for the casting of small items. It allows for poured sections of 3-10mm thick (mass dependent). CLARITI™Pro can be poured in multiple layers with excellent cohesion.

Product Highlights

- Displays excellent adhesion to other substrates and cohesion on multiple layers.
- Good fluidity and de-airing properties.
- FDA Approved and Non-Dangerous Goods for transport.
- Easily tinted with a vast range of compatible colorants.
- Fast curing cycles.
- Convenient 2:1 ratio by Volume.
- Fantastic clarity and visually water white.

Typical Applications

- Small sized articles such as jewelry, embellishments, keyrings, pend blanks and trinket bowls.
- Crack and knot fill for timber.
- Most small craft casting.
- Electrical assembly potting.
- Most small sized clear castings

Physical Properties

Part A

Viscosity	cPs @ 25°C	500-1000
Colour		Colourless Transparent

Part B

Viscosity	cPs @ 25°C	800
Colour		Colourless Transparent

Handling Properties

Mix Ratio	Part A : B (by volume)	100 : 50
Potlife	100g mass @ 23°C	10-20 mins
Cure Time	@23°C	6-12 hours
Cured Hardness	7 @23C	80D
Heat Distortion Temp	When properly cured	80°C

Processing Information

(Optimal casting conditions are 23°C and 50%R.H)

- Cast thickness under 3mm and over 10mm should be tested and results will be relevant to total cast mass and temperature of workspace.
- Being a fast set epoxy designed for smaller objects, CLARITI Pro generates more exotherm (internal temperature) than other systems. Over-heating may occur if the cast parts are too large or thick, which can result in discoloration of the cured part.
- If the cast item/part is to be used for Food Contact after curing, the temperature of the food should not exceed 50°C
- When the relative humidity exceeds 80%, the surface of the cured product can absorb moisture and form a white mist. We suggest a fully controlled environment if casting in these conditions.
- If timber and similar porous objects are being embedded, it is suggested that they should be pre-sealed.
- If the materials have been stored at temperatures below 15°C for a prolonged period, ensure to condition the Part A material at 25-35°C to reduce viscosity and assist in air release. Refer to Epoxy Conditioning Guide.
- This resin and hardener combination have been formulated with the objective of being as safe as possible, however, in common with most epoxy resins and hardeners, skin contact with uncured materials may cause irritation of sensitive skins. For this reason, contact with the uncured materials must be avoided at all times.
- Ensure that mixing & casting is performed in a well-ventilated area as some vapors may be released during cure.
- Please refer to the Materials Safety Data Sheet for more information.

Storage

Store the components in a dry place at 18 - 25 °C, in tightly sealed original containers. It is suggested to purge moisture from the Part A containers with Poly Purge Spray prior to resealing the lid after use.

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Revision Number

1

Disclaimer

The data presented in this leaflet are in accordance with the present state of our knowledge, and does not absolve the user from carefully checking all supplies immediately on receipt. We reserve the right to alter product constants within the scope of technical progress or new developments. The recommendations made in this leaflet should be checked by preliminary trials because of conditions during processing over which we have no control, especially where other companies' raw materials are also being used. Recommendations for use do not constitute a warranty, either expressed or implied, of the fitness or suitability of the product for a particular purpose.