

PROTITE Clear Casting & Embedding Resin

PF-FRCE0500

ISSUED: March 2019

INTRODUCTION

DESCRIPTION

Protite Clear Casting & Embedding Resin can be used extensively in craft and as a teaching aid, as well as for applications in metallurgy, zoology, botany and medicine.

TYPICAL USES

- Casting insects, coins or flowers or semi-precious stones in resin for displays and ornaments
- Creating cuff links, door knobs, paper weights, plaques, souvenirs, artificial marble products, jewellery and fishing lures
- Filling in knot-holes in timber table tops
- Note: Not recommended for thin coating applications i.e. Brush on

FEATURES

- Crystal clear when cured
- Hardens in 12 hours, tack free and fully cured at 24hrs
- Easy to use

TECHNICAL DATA

Appearance	Liquid
Flash Point	31°C
Odour	SWEET OR SHARP AROMATIC ODOUR
Open Time	30 minutes @ 25°C
Gel Time	30 to 45 minutes (temperature dependent)
Hardens	12 hours
Full Cure – Tack Free	24 hours
Clean up	Protite Cleanup Solution



AVAILABLE SIZES

Barcode	Code	Pack Size	Description
9312219541177	PF-FRCE0500	500g	PROTITE CLEAR CASTING & EMBEDDING RESIN 500G
9312219541184	PF-FRCE1000	1Kg	PROTITE CLEAR CASTING & EMBEDDING RESIN 1KG

APPLICATION

How to use this product:

Mould Preparation:

- Prepare a suitable reusable or rigid plastic mould. A variety of materials can be used:
 - Latex or natural rubber
 - Silicon, R.T.V Rubber
 - Polypropylene and Polyethylene

Mixing:

- A. Wearing nitrile gloves and working in a well ventilated area, mix required amount of Catalyst and Resin.
- B. Recommended mix ratio at 25°C is 10 drops of Catalyst to 30ml of Resin.
 - a. Add 3 drops extra for each 5°C decrease in temperature
 - b. Reduce by 3 drops for each 5°C increase in temperature

NOTE: Excess use of Catalyst will result in a shortened open time and resin may cure to fast, overheat and crack.

- C. Use a wooden mixing stick to stir the catalyst into the resin for 2 minutes. Mix gently to avoid trapping too many air bubbles in the resin. Air bubbles will disappear during curing stage. Scrape sides and bottom of cup with stirring stick to insure proper mixing of resin and catalyst.

Application:

- A. Pour resin into the prepared mould up to the level where you would like to see the object begin (in layers of 5-10mm). Pouring the resin in multiple layers will avoid the resin creeping up the sides during curing time and keeps the resin from becoming too hot.
- B. Allow the resin to GEL, check the surface after 30 – 45 minutes with the stirrer stick. There should be sufficient firmness to hold the object being cast.
 - a. If the surface has not reached a firm GEL wait another 5 to 10 minutes then check again.
 - b. *NOTE:* Do not allow the casting layers to fully cure or harden until the final layer has been poured. A fully cured layer will shrink away from the sides of the mould allowing additional pours to creep down the sides of the previous layer. If this occurs lengthy sanding and polishing may be required.
- C. Cover mould with plastic wrap between layers to avoid dust settling on surface.
- D. Once GEL has formed you are then able to Gently place the object in the mould then pour another layer of 5-10mm of resin over the object.
- E. To pour further layers repeat the application steps.

Curing:

- A. After final layer is poured allow the cast to fully cure for 24 hours.
- B. Cover mould with plastic wrap to avoid dust settling on surface.
- C. Avoid touching the resin surface as it may still be tacky.
- D. **Protite Casting & Embedding Resin** is not self-levelling.
- E. Exposure to sunlight aids the curing process and reduces tackiness.

NOTE: Casting resin does shrink during curing time and will come away from the mould. Remove the cast from the mould after it has fully cured for 24 hours by stretching out the sides of the mould. If surface is still tacky, let it harden until it is tack-free.

Clean-Up

- A. Clean up with **Protite Clean-up Solution**.

SAFETY

Wear suitable protective clothing, rubber gloves, eye & face protection when using and handling fibreglass, resins and hardener. Also refer to the Safety Data Sheet (SDS) before use.

Disclaimer

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