

# Product sheet

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## *Casting : CrystalResin*

### **Properties:**

Two-component epoxy resin system: resin and curing agent.

Transparent and solid, perfectly imitates glass paste.

Allows the creation of moulds, inclusions up to 2 cm thick for a small volume, coatings or laminates.

Intended for experienced and professional users.

- Transparent resin,
- Simply dosing,
- Very solid,
- Can be used as a varnish.

Use: creation in volume, moulding of decorative objects, frames, friezes, tableware, moulding subjects, jewellery, bars, marbling techniques, etc.

Avoid the insertion of products such as plants, food, insects etc.

Media: casting for moulding on cards, paper, glass, faience, metal, silicone, painted wood, plastic.

Setting time: surface 12 hours and centre 24 hours.

Maintenance of creations: light cleaning with a damp cloth.

Storage: 6 months in its closed pot after opening the bottle.

Ideal storage temperature:

For the liquid resin-curing agent pair, service life is improved if they are stored well closed in their original packaging at a temperature between 15°C and 25°C. Keep away from frost.

**Once cured, the resin will not withstand prolonged exposure to temperatures exceeding 50°C.**

Cleaning of the equipment used: commercially available alcohol at 70°C or hydro-alcoholic gel.

Packaging: 150ml – 300ml – 750ml

## Applications:

Moulding of decorative objects, bottoms of trays, jewellery creations, decoration of media, inclusions of maximum 2cm thickness with a small volume. If applied in a thin layer, **Crystal Resin** gives a varnished effect to your creations.

1. Into a clean, dry container, first pour 1 dose of Crystal **B** curing agent and then 2 doses of Crystal Resin **A**.
2. Mix the two components thoroughly into the corners of the container. (Incomplete mixing does not guarantee curing, while over-vigorous mixing causes bubble formation.) **Transfer the mixture to a second container** and mix again to ensure the homogeneity of the resin and optimal curing.
3. Pour into the medium of your choice.
4. Leave to dry for 24 hours away from dust.

The setting is progressive and variable depending on the ambient temperature and humidity.

Crystal Resin is ideal for mixed-media techniques **MIXEDMEDIA** from Pébéo.

### Gédéo tips:

- To determine the amount of each component and avoid wasting the product, fill the mould to be used with water and pour into a measuring container: one third of the volume is for the curing agent and two thirds are for the resin. Dry the mould and the measuring container well before pouring the Crystal Resin inside.
- The resin takes on the surface appearance of the medium in which it is cast. A matte mould gives a matte finish, while a glossy mould gives a glossy finish.
- To give a glossy finish to a creation with a matte finish, apply a thin layer of **Gédéo GLOSS+** varnish or **Gédéo Crystal Resin**.
- Sand the surfaces before re-applying to the cured resin.
- To allow the shaping of your creation, you can remove it from the mould after 12 hours of drying and e.g. place your moulding around a bottle to give it a curved shape. Complete curing occurs after 24 hours.
- **We recommend you to protect your creations by applying a layer of gloss Bindex 24 hours before casting the Crystal Resin.**

### Precautions:

- Avoid contact with skin and eyes, and wear gloves.
- Only objects cast in metal moulds provided for this purpose can be used as jewellery.
- Do not mix the components of **Gédéo Crystal Resin** with the components of the Gédéo Glazing Resin.
- Do not exceed 150 ml of Crystal Resin preparation per mix to limit any risk of overheating.
- **Gédéo** resins are not intended to come into contact with food.
- Crystal resin applications, even when dry, do not withstand contact with water.

Paper, cardboard, glass, wood, metal and fabrics must be sorted

**Recommendations: this information is given for indicative purposes only. It is recommended to always perform preliminary tests on the selected medium before starting work.**

For more information on product safety and handling conditions, refer to the Safety Data Sheet on the website. <http://www.pebeo.com/Pebeo/Fiches-de-donnees-de-securite>

## **Frequently Asked Questions**

### **My casting in Crystal Resin cannot be cured:**

2 possible reasons:

- incorrect mixing of the 2 components (double mixing is recommended: mix in one container, transfer to another container by scraping the edges well and finish the mixture in the second container)
- incorrect dosing of the 2 components: dosing is by volume.

### **How to colour Crystal Resin:**

- For a transparent appearance: add a few drops of Vitrail.
- For an opaque appearance: add a few drops of Ceramic.

Do not add too much, otherwise there will be curing problems.

### **The resin turns yellow over time when coloured with white Vitrail.**

Add a little ultramarine Vitrail to the mixture.

### **My tray covered with Crystal Resin shows “refusals”.**

It is possible to cast a second layer.

### **How can traces of cured resins on glass be removed?**

Use a powerful paint stripper.

### **Can Crystal Resin be applied to wood?**

This is possible, depending on the type of wood. No problems with pine, but precautions should be taken with fat wood (oak, chestnut) or acid wood → perform tests in advance.

### **What can be done to rectify a spoiled tray bottom?**

Cast a new layer of well-mixed resin

### **Expiration date?**

5 years in the closed original packaging and 6 months after opening.

### **Crystal Resin does not cure on a painted tray bottom**

The mixing was not done correctly. Refer to the recommendations on the Product Sheet.

### **Is it possible to cast the resin in alginate?**

No, because there is too much moisture with which the resin will react.

### **What is the outdoor behaviour of Crystal Resin?**

The product will yellow slightly and lose its glossiness.

### **A vase filled with Crystal Resin splits after several months**

Crystal Resin is not recommended for casting large pieces.

This phenomenon can occur because of the difference in expansion between the glass and the resin.

**The scoop is too big to cast only one bracelet. What can be done about this?**

Use pharmacy syringes.

## **Physical properties of Crystal Resin**

Crystal Resin (GPC123 XE 2362/7 Resin + GPC119 XE 2362/6 Curing agent)

	RESIN	CURING AGENT	MIXTURE
Proportion of mixture by weight	100	42	
Proportion of mixture by volume at 25°C.	100	50	
Appearance	liquid	liquid	liquid
Viscosity at 25°C (mPa.s)	1800	15	200
Density of the parts before mixing at 25°C.	1.14	0.96	
Density of the polymerised product at 23°C			1.14
Pot life on 120 g at 25°C (min.) freezing point			210
Dry appearance to the touch at thickness 2 mm			16-20 hours
UV exposure behaviour			yellowing
Shore hardness D1/D15			
after 7 days			82/81
after 16 hours at 80°C			82/81
Glass transition temperature (Tg) after 16 hours at 80°C.			52°C