

# slowcure epoxy casting resin

resin<sup>8</sup>

## description

Resin8 Slowcure Epoxy Resin is a solvent free, crystal clear epoxy casting resin for use in jewellery, sculpture and art. We believe it is one of the best hard curing, water-clear casting resins on the market in the UK.

This resin is specifically designed for deep casting in decorative applications, making it perfect for bangles, paperweights and even river tables! Cast into silicone moulds with this low viscosity resin and use for laminating, embedding electronic components and filling gaps in wood. Colour this resin with any of the non water-based pigments available from Resin8 and try embedding objects or adding mica powder & glitter to make keepsake items.

## main uses

- Jewellery casting
- Paperweights
- River tables
- Cold enamelling

## troubleshooting

Resin has crystallised in the bottle - Stand the resin bottle in a jug of hot water for 5 minutes to warm up and disperse the crystals before using it. This only happens when the resin is liquid. When properly catalysed and fully cured the resin retains its clarity permanently.  
Not set - Wrong mixing ratio or too cold.  
Trapped air bubbles - mixed too fast.  
Sticky, greasy surface - humidity levels too high in room.

## application

The mixed resin can be tinted with pigments or powders and can then be poured into a mould. The mould can be plastic or made of silicone rubber. Casting can be carried out by gravity or under vacuum. Temperature should be between 18 to 25°C, humidity level below 70%. A 2:1 mix will provide a hard casting, suitable for manufacture of fancy shapes and decorative items etc. Should a new mix be applied onto cured resin, the contact surface should always be sanded in order to enhance adhesion, but only after 5 days. Once the resin is mixed and poured into the mould gently pass warm air from a heat gun or hairdryer on slowest speed setting, this will assist in removal of any bubbles generated during mixing.

## physical & mechanical properties

Properties given for a temperature of 22°C:

- + Resin: Clear liquid, viscosity of 1,000 mPAS
- + Hardener: Clear liquid, viscosity of 150 mPAS
- + Mixture: Clear liquid, viscosity of 300 to 450 mPAS
- + Mixing density: 1.1g/cc
- + Mix ratio: 2:1
- + Hardness: 95 Shore D
- + Elongation at break: 8%
- + Tensile strength: 66 MPa
- + Flexural strength: 1205 MPa

The optimal mechanical properties will be reached after 21 days at 20°C or 15 hours at 60°C

The data provided in this document is the result of tests and is believed to be accurate. We do not accept any responsibility over the mishandling of these products and our liability is limited strictly to the value of the products we supply.

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## key benefits

- **CRYSTAL CLEAR**  
UV stabilised, optically clear, excellent visual properties
- **MINIMAL BUBBLES**  
Designed for casting and laminating, unaccelerated, low viscosity
- **LONG WORKING TIME**  
2 hour pot life, easy to use with low exotherm
- **SOLVENT FREE**  
Slowcure Epoxy is a modern formulation of the safest epoxy chemicals available

## mixing ratio

by volume - resin : hardener - 2 : 1

by weight - resin : hardener - 100g : 42g

mixing is CRITICAL and must be accurate. 2 parts resin for 1 part of hardener will provide a hard casting once cured. Pour the hardener first then the resin. The combined liquids must be thoroughly mixed to completely remove any streaks, scraping the sides and base of the mixing pot. Transfer the mix to a second container and stir for at least 3 minutes. An entirely homogenous mix is essential in achieving optimal results. It is important to only mix the correct quantity at a time as epoxy resin tends to build up heat. Ensure you measure and mix more than 20ml for accuracy (and less than 12 litres).

## health & safety

eat, drink and smoke AWAY from your work area  
wear nitrile gloves, or a suitable barrier cream  
eye protection is recommended  
wear a suitable respiratory mask when sanding

if in contact with skin - wash immediately with plenty of water  
if in contact with eyes - rinse immediately

### seek medical advice

if swallowed - do NOT induce vomiting  
**seek medical advice immediately**



wear nitrile gloves or a suitable barrier cream for epoxy resin, goggles and a respirator if sanding



stir thoroughly for 3-4 minutes



pot life for a 60ml mix at 22°C - 3 to 4 hours, 500ml mix at 22°C - 10 hours



demould after 24 hours (at 22°C) or 36 hours (at 15°C), depending on volume



shelf life 12 months in unopened containers



totally clear and UV stabilised



un-accelerated with excellent bubble release



safe to be de-gassed with naked flame for 2 seconds



excellent for use in silicone moulds