

dome-it epoxy resin

description

our dome-it epoxy resin is the perfect resin for cold enamelling and making resin jewellery. crystal clear, this two part epoxy resin is measured by weight and cures overnight. It is strong and durable, has excellent resistance to yellowing, and can be used for coatings and shallow castings.



give your jewellery a professional finish with a domed resin layer

main uses

- doming (creating a finishing layer)
- jewellery making (embedding, casting)
- coating
- small scale artwork

application

this resin is designed to be used as a clear doming layer but it can also be coloured with any non-water based pigments and powders. apply by pouring. temperature should be between 15 to 20°C and humidity level below 70% (i.e. do not use in a room with drying laundry). a 2:1 mix will provide a hard, glossy finish. make sure your resin piece is level. pop any bubbles by hand using a cocktail stick, or use a heat gun or naked flame for a couple of seconds to aid bubble release.

troubleshooting

this resin becomes susceptible to amine blush when used under the following conditions: less than 50g measured, high humidity, low room temperature (15°C or below), draughty and windy conditions (including air conditioning), to avoid polymer bloom we advise mixing more than 50g each time, warming the resin first before mixing with the hardener. we also suggest that your working area is kept as consistent as possible with regard to temperature and humidity while the resin is curing, and that the silicone mould or bezel you are pouring into is also pre-warmed.

physical & mechanical properties

properties given for a temperature of 25°C and volume of 200g:

- + resin: colourless liquid, viscosity of 1,700 – 2,100 mPas
- + hardener: colourless liquid, viscosity of 200 – 300 mPas
- + mixture: colourless liquid, viscosity of 600 – 900 mPas
- + mixing ratio by weight: 2 parts resin (A) to 1 part hardener (B) (100 : 50)
- + working time at 25°C: 30-40 minutes
- + cure time: 24 hours
- + fully cured hardness after 7 days: 80-85 Shore D
- + minimum temperature to work in: 15°C
- + recommended casting thickness: 2-5mm
- + mixed density: 1.09 - 1.13 g/cm³
- + glass transition temperature: 60-65°C
- + tensile strength (when cured): 61-66 MPa
- + flexural strength (when cured): 75-80 MPa
- + elongation at break: 4-6%
- + chemical resistance: excellent resistance against water and chemicals. excellent adhesion to a variety of substrates.

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

- **HIGH BUILD**
creates a convex, glass clear magnifying layer over surfaces
- **LONG POT LIFE**
at least 30 minutes working time at ambient temperature
- **MULTI-PURPOSE**
excellent for doming, embedding, coating and shallow castings
- **UV STABLE**
high resistance to yellowing with in-built UV stabilizers



mixing ratio

by weight - resin (A) : hardener (B) - 100g : 50g

mixing is CRITICAL and must be accurate. the mixing ratio must be accurately followed. it is not possible to change the ratio. this would result in lower mechanical properties and the resin not drying properly. the mixture should be thoroughly stirred (mix for 3 mins) to ensure full homogeneity. epoxy systems tend to heat up much faster in a pot than as a thin film. therefore mix only the necessary amount usable within the given pot life. ensure you measure and mix more than 50g for accuracy and less than 200g to avoid exotherm. mixing less than 50g may cause surface blemishes.

health & safety

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

if in contact with skin - wash immediately with plenty of water
if in contact with eyes - rinse immediately for 15 minutes

seek medical advice if irritation occurs
if swallowed - do NOT induce vomiting
seek medical advice



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



stir thoroughly for 3 minutes



pot life for a 200g mix at 25°C - 30-40 mins



touch dry after 12-18 hours (at 25°C) depending on volume. cure time 24 hours. full cure 7 days.



shelf life 12 months in unopened containers



optically clear with UV inhibitors



pop with a sharp object or pass warm air over the surface of the resin (e.g blowtorch)



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



great for use in silicone moulds