

# 1 to 1 epoxy artwork resin

resin<sup>8</sup>

## description

Resin8 1 to 1 Epoxy Artwork Resin is designed for coating existing pieces of art, creating new art and making shallow pieces of jewellery. It is easy to use, easy to measure out, quick to set and clear as day! It has no solvent content, is non-flammable, odour-free and as a coating resin will be touch dry within 4-5 hours.

Resin8 1 to 1 Epoxy Resin is our most popular resin! It's non-toxic (when used as directed) and can be coloured with pigments, mica powder, glitter and alcohol inks. Resin8 1 to 1 Epoxy Resin is suitable as a food-safe coating but NOT as a food preparation/cutting surface. Use it in knife and chopping board handles, or under acrylic as a coaster. It makes excellent geodes and shallow jewellery castings, as well as cold enamelling, coating photos, using on badges and clocks.

## main uses

- Artwork (coating, geodes, sealing, pouring)
- Jewellery making (shallow casting, bezels)
- Food-safe coating (board handles, serving trays)
- Cold enamelling

## application

This resin is designed to be used as a clear coating but it can also be coloured with non-water based pigments, inks and powders. Apply the resin by brush, roller or by pouring. Temperature should be between 18 to 25°C and humidity below 70% (i.e. don't try and cure this resin in a bathroom or room with drying laundry in). A 1:1 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. Avoid dimpling by holding the heat gun at least 20cm away from the surface of the resin. Use silicone dispersion media to create lacing and cellular effects and alcohol ink for petri effects. Bear in mind that adding too much pigment/ink will affect the cure of the resin and it may not set.

## physical & mechanical properties

Properties given for a temp. of 23°C and coating layer of 2mm:

- + Resin: Clear liquid, viscosity of 6,500 - 6,800 mPas
- + Hardener: Clear liquid, viscosity of 2,200 - 2,300 mPas
- + Mixture: Clear liquid, viscosity of 4,400 - 4,700 mPas
- + Mixing ratio: 1:1 by volume (100:90 by weight)
- + Specific gravity: Resin: 1.11 - 1.15 g/cm<sup>3</sup>, Hardener: 0.94 - 0.96 g/cm<sup>3</sup>
- + Tensile strength: 40 MPa
- + Flexural strength: 65 MPa
- + Hardness: 24 hours at 25°C shore D 75-78
- + Compressive strength at yield: 24 MPa
- + Elongation: 9%
- + Impact strength: 3.5 kJ/m<sup>2</sup>
- + Minimum application temperature: 10°C
- + Gelltime: 65-70 minutes
- + Setting time / touch dry: 4-5 hours
- + Full cure: 5-7 days
- + Heat-resistance: 45-50°C

### top tips

warm the resin first to lower the viscosity - this will help release bubbles

measure and use at least 20g of each component to ensure a hard, glossy finish



## key benefits

- NON TOXIC**  
safe for home use when used as directed, odour-free
- USER-FRIENDLY**  
Easy 1:1 mix ratio by volume, non-flammable
- HIGH GLOSS**  
shiny, self-levelling, excellent clarity
- SOLVENT-FREE**  
1 to 1 Epoxy Resin is a modern formulation of the safest epoxy chemicals available

## mixing ratio

by volume - resin : hardener - 1 : 1

by weight - resin : hardener - 100g : 90g

mixing is CRITICAL and must be accurate. 1 part resin for 1 part of hardener (by volume) will provide a hard, glossy finish once cured. Pour the hardener into one pot and the resin into another. Transfer the mix to a second container and stir for at least 3 minutes. An entirely homogenous mix is essential in achieving optimal results. Ensure you measure and mix more than 20g for accuracy and less than 2kg to avoid exotherm (heat build-up). Only mix the amount you need for use within the pot life.

## 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  
keep hands away from face

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 minutes



pot life for a 60g mix at 23°C is 15-20 minutes. this can be extended by using the resin at room temperature



touch dry after 4-5 hours at 23°C depending on volume



shelf life 12 months in sealed containers. keep containers away from heat or cold



optically clear with in-built UV inhibitors



pop bubbles with a sharp object or pass warm air over the surface of the resin for a few seconds



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



designed for use in artwork - coverage 1.5m<sup>2</sup> per litre of mixed resin (0.5mm thick layer)

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.