

coat-it epoxy artwork resin

resin⁸

description

Resin8 coat-it epoxy 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 is one of the fastest curing non-toxic epoxy art resins on the market in the UK and as a coating resin will be touch dry within 4-5 hours.

Resin8 coat-it 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 coat-it epoxy resin is suitable as a food-safe coating but NOT as a food preparation/cutting surface. Use it in a knife and chopping board handles, or under acrylic as a coaster. It makes excellent geodes and shallow jewellery castings, as well as being great for cold enamelling, coating photos, using on badges and clocks.

main uses

- Artwork (geodes, sealing, pouring, coating)
- Jewellery making (doming, shallow casting)
- 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 temperature of 23°C and volume of 60g:

- + 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
- + Mix ratio: 1:1 by volume (100:90 by weight)
- + Specific gravity: Resin: 1.11 - 1.15 g/cm³, Hardener: 0.94 - 0.96 g/cm³
- + Tensile strength: 40 MPa
- + Flexural strength: 5 MPa
- + Hardness: 24 hours at 25°C shore D 75-78
- + Compressive strength at yield: 24 MPa
- + Elongation: 9%
- + Impact strength: 3.5 kJ/m²
- + Minimum working temperature: 15°C
- + Gellime: 1-2 hours
- + Touch dry: 4-5 hours
- + Cure time: 12-18 hours
- + Full cure: 5-7 days
- + Heat-resistance: up to 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, high build, self-levelling, excellent clarity
- SOLVENT FREE**
our coat-it 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 20ml for accuracy and less than 2000ml 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. 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 unopened containers
- 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
- excellent for use in artwork - coverage 1m² per 500g mixed resin (0.5mm thick layer)