

# RESIN

craft

## RESINCRAFT 1-2-1 EPOXY RESIN: CLEAR CASTING AND ART RESIN

### INTRODUCTION

RESINCRAFT 1-2-1 EPOXY RESIN: CLEAR CASTING AND ART RESIN is a two-part resin for safe and user-friendly use, best for beginners and professionals. This product is ideal for resin pours, coatings, and shallow castings. It is self-levelling and will not shrink or distort over time. It offers the best UV resistance, is non-flammable and odour free.

This resin is suitable for use on canvas, wood, glass, metals, furniture, mosaics, ceramic tiles, encaustic pictures, drawings, paintings, photos, paper collages, prints and other non-porous surfaces.

FEATURES	BENEFITS
Good gloss	Attractive smooth protective surface
UV-stabilised	Improved weather resistance
Low water absorption	Excellent water resistance
Colour	Clear – Transparent

### TYPICAL LIQUID PROPERTIES

PROPERTY	@ 23°C mPa.s	@ 25°C mPa.s
Viscosity:		
Resin	6500 – 6800	5500 – 5600
Hardener	2200 – 2300	1900 – 2000
Mixed Viscosity	4400 – 4700	3700 – 3900
Working time:		
250g mixed resin	10-15 mins	10-12 mins
Geltime:		
250g mixed resin	20-25 mins	20-21 mins
5mm Casting	55-60 mins	50-55 mins
2mm Coating	65-70 mins	55-60 mins
Setting Time:		
250g mixed resin	26-27 mins	24-25 mins
5mm Casting	4 - 4½ hours	3½ - 4 hours
2mm Coating	4½ - 5 hours	4 - 4½ hours
Touch Dry:	4 - 5 hours	5½ - 6 hours

## PERFORMANCE AND SPECIFICATIONS

Specific Gravity @23°C: Resin Hardener	1.11 – 1.15 g/cm <sup>3</sup> 0.94 – 0.96 g/cm <sup>3</sup>
Mixing Ratio: By Weight By Volume	100 parts resin: 90 parts hardener (1:0,9) 100 parts resin: 100 parts hardener (1:1)
Coverage @ 0,5mm thickness	1m <sup>2</sup> per litre mixed resin
Minimum application temp	15°C
Heat Resistance	Applications up to 50°C
Tensile Strength	40 MPa
Flexural Strength	65 MPa
Compressive strength at yield	24 MPa
Elongation	9%
Impact Strength	3.5 kJ/m <sup>2</sup>

## MIXING AND CURING CHARACTERISTICS

RESINCRAFT 1-2-1 EPOXY RESIN: CLEAR CASTING AND ART RESIN needs 1-part resin and 1-part hardener (1:1) by volume and a (1:0,9) by weight. Always pour the hardener first and then the resin. Mix thoroughly for 3-4minutes, scraping the sides of your mixing container as you mix. Only mix the amount of resin needed as it cannot be stored for later use due to curing activation.

RESINCRAFT 1-2-1 EPOXY RESIN: CLEAR CASTING AND ART RESIN's pot life is 15-20 minutes at 25°C. and will harden within 12 -24hrs at this ambient temperature, but its total cure time is 5-7days. Keep out of sunlight during curing process until fully cured.

## APPLICATION

RESINCRAFT 1-2-1 EPOXY RESIN: CLEAR CASTING AND ART RESIN can be applied by hand pouring or roller/brush application. During and immediately after application RESINCRAFT 1-2-1 EPOXY RESIN: CLEAR CASTING AND ART RESIN, the work area must be free of moisture and contamination. Ensure you are working on a level surface, although this resin is self-levelling it will run to the lowest point and pool in the centre if it is not levelled. Optical effects can be created by using a heat-gun or blowtorch, this also helps get rid of any unwanted bubbles in the resin. A sharp object such as a pin can also be used to pop bubbles. Be sure to cover your project adequately to avoid any dust or other contaminants from sticking to the resin. This can be done with a dust sheet or box/container.

## PIGMENTS & ADDITIVES

Epoxy Art Resin is very versatile with its ability to handle additives. The following items can be mixed into our ResinCraft 1-2-1 Epoxy Resin: Clear Casting and Art Resin:

- Mica powders
- Acrylic paint
- Acrylic inks
- Epoxy pigment paste
- Glitter
- Gold leaf
- Glow-in-the-dark pigment
- ColourShift pigments

## STORAGE AND HANDLING

To ensure maximum stability and maintain optimum properties, surface coat should be stored in closed containers, maintained below 25°C and away from heat sources and sunlight. RESINCRAFT 1-2-1 EPOXY RESIN: CLEAR CASTING AND ART RESIN has a 1-year shelf life in a sealed container.

## STANDARD PACKAGE

Non-returnable plastic bottles.

## MATERIAL SAFETY DATA SHEET

A Material Safety Data Sheet is available from your Resin Craft representative. Make certain that you obtain a copy of this guide to the safe handling of this resin.

## DISCLAIMER

The before mentioned technical data and information, especially the recommendations for applying and using our products, are based on our current knowledge and experience when applied under normal conditions. In practice, the materials, surfaces or site conditions are so different that no warranty regarding the working results or liability, arising out of any relationship, can be inferred neither from this information nor from a verbal consultation. Patent rights of any third party are to be observed. The determination of product suitability for any particular application is under the user's responsibility. Use of this product and information is at your own risk.

 +27 (0) 21 511 3926     +27 (0) 21 511 9936  
 [info@alliedfibreglass.co.za](mailto:info@alliedfibreglass.co.za)  
161 Voortrekker Road, Maitland, 7405, Cape Town