

# RESI ART

CREATIVE RESINS

## Resi Deep Cast

TECHNICAL DATA SHEET

Dive into a world of limitless possibilities with Resi Deep Cast, the unrivaled epoxy resin from Resi Art. Considered by many as a 'first of its kind' formulation, Resi Deep Cast is sure to impress. Designed for river tables and creative casting that require a deeper pour & very low peak exothermic temperature. Suitable for depths of up to 100mm in large volumes. Deep Casts' aromatic ring-free composition ensures an extremely low yellowing product while its user-friendly nature enables hassle-free execution of substantial and large volume pours. It's slower cure time ensures excellent bubble dispersion. To further increase the longevity and clarity of Deep Cast projects, Resi Deep Cast has proprietary optical-brightening technology that gives a crystal clear & water like appearance to the mixed product. We're confident it's like nothing else on the market.

### FEATURES & BENEFITS

- Excellent bubble dispersion
- Australian Made
- High gloss
- Clear water-like finish
- Excellent adhesion
- Self-levelling
- No VOC's (Volatile Organic Compounds)
- Low viscosity
- Excellent chemical resistance
- User friendly
- High durability
- Seamless
- Solvent free
- Low heat when curing
- Food contact safe

### RECOMMENDED USES

- River tables
- Encapsulation
- Self-level systems
- Artwork
- Application at depth
- Casting User friendly



PHOTO BY THE SLAB LADS

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### PRODUCT INFORMATION

<b>Pot Life</b>	120+ minutes at 25°C
<b>Shelf Life</b>	2 years. Store in a cool, dry area and out of direct sunlight
<b>Mixing</b>	(2:1) 2 Parts Resi Deep Cast (Part A): 1 Part Resi Deep Cast Hardener (Part B)
<b>Heat Resistance</b>	Epoxy will not begin to soften until 90°C.
<b>Casting</b>	Maximum 100mm depth without exceeding 50L per pour Formulated for larger pours and not recommended for casting under 100mL or 10mm
<b>Clean Up</b>	Clean tools with 150 Epoxy Thinners while still wet and discard rollers and brushes
<b>Cure Schedule</b>	Gel Time: 2-3 days. Tack Free Time: 3-4 days. Sure Hardness: 7-10 days. Full Chemical Cure: 14-20 days.

### PHYSICAL PROPERTIES

<b>Solids Content</b>	100%	<b>Bond Strength to Wood</b>	100% Wood Failure
<b>Finish</b>	Clear	<b>Heat Distortion Temperature</b>	ASTM D648: 50°C
<b>Abrasion Resistance</b>	Very good	<b>Peak Exothermic Temperature</b>	35°C in a 15L pot at 20°C
<b>Rate of Burning</b>	ASTM D635: Self-extinguishing	<b>Density</b>	Part A: 1.14 Part B: 0.98
<b>Compressive Strength</b>	ASTM D695: 12,000 psi		
<b>Tensile Strength</b>	ASTM D638: 3,900 psi		
<b>Elongation at Break</b>	ASTM D638: 7.00%		
<b>Taber Abrasion Resistance</b>	ASTM D4060: < 0.1g loss		
<b>Water Absorption</b>	ASTM D570: 0/07% (2 hour boil)		
<b>Flexural Strength</b>	ASTM D790: 7,800 psi		
<b>Shore D Hardness</b>	ASTM D2240: 82		

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### SURFACE PREPARATION

Surfaces must be clean, dry and free from all traces of contaminants, loose materials, old coatings, curing compounds and other chemical agents like grease, oil and cleaners. Substrates which are heavily impregnated with contaminants must be cleaned via suitable solvent cleaning and decontamination methods.

Structurally unsound layers and surface contaminants must be mechanically removed by sanding or other methods. Substrates heavily impregnated with oil must be cleaned by grinding, sanding or suitable solvent cleaning methods.

### PRODUCT APPLICATION

Prime surfaces first using Resi Clear or Resi Cast with a brush or roller to lower the chance of bubbles occurring during casting or pours at depth. Leave to cure until tack free.

Mix 2 Parts A with 1 Part B (2:1) by volume. Mix with a drill mixer at a slow speed for 2 minutes. Ensure the sides and bottom of the container/bucket are mixed. Tilt the drill to the side to ensure the product on top of the container/bucket is mixing in with the product on the bottom. Avoid introducing bubbles by keeping the mixer below the surface line and not mixing at a high speed. In normal curing conditions, the Resi Deep Casting Kit does not require an induction time and casting can begin immediately after mixing.

It is recommended to leave the resin cure in an air conditioned room set to 20°C, until tack free.

Note: Priming with deep cast is not advisable.

### CAUTION

- Thoroughly mix Part A and Part B using a powered drill with a paint mixing attachment for 2 minutes. Ensure that all materials on the sides and on the mixer are combined thoroughly to avoid hot spots in the cast that may never cure.
- The mix ratio is calculated by product volume. **NOT BY PRODUCT WEIGHT.** Mixing products by weight may result in an unsatisfactory cure time or failure of the mix to cure entirely.
- **A maximum of 50L (mixed Part A and Part B) is advised for large pours in order to control the maximum exothermic curing temperature.**
- When completing a project in stages the waiting time is around 2-3 days between pours or until it is firm or is in the gel stage. **DO NOT POUR MULTIPLE MIXES AS A SINGLE POUR.**
- All epoxies will reach a higher temperature when conducting larger pours.
- All epoxies will reach a higher temperature when using additives or tints.
- Due to the depths able to be poured, slight shrinkage may occur at the surface of the resin. Lower temperatures and shallow pours may help to avoid this issue.
- Smaller and shallower pours may take longer than expected to cure.
- **DO NOT mix Deep Cast Part A or Deep Cast Hardener with any other Resi Art wet product,** doing so will result in the product not curing

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