

PERFECT CAST

ULTRA-CLEAR EPOXY RESIN

Deep

Perfect Cast / Deep is a solvent-free, liquid epoxy system designed to create thick, ultra clear castings in Timber up to a maximum thickness of 50mm. Perfect Cast / Deep has excellent UV resistance and air release, and the extended gel time minimizes the chance of exotherm.

Pigments or tints can be added to Perfect Cast / Deep to create translucent colours, and special effects can be created by embedding stones, shells, coins or other decorative items.

UNCURED PROPERTIES		
	Resin	Hardener
Physical State	Clear Liquid	Pale Yellow Liquid
Viscosity mPas @ 25°C	198	89
Specific Gravity g/ml@ 25°C	1.10	0.98

APPLICATION

Timber must be seasoned and dry. Sealing the surface with an epoxy coating is recommended prior to the main pour to reduce the risk of air release from the substrate.

Mix enough Resin and Hardener to fill the cavity - recommended maximum of 1 kg - larger casts are possible depending on size and shape.

Pour Part A Resin and Part B Hardener into a clean plastic container. Use a flat mixing stick to stir the two ingredients for at least 4 minutes - longer in cooler conditions. Take care to stir the material slowly so air entrapment is kept to a minimum.

For best results apply at temperatures between 15°C to 25°C and at below 85% humidity. NOTE: higher ambient temperatures will cause the resin to cure faster which increases the risk of exotherm.

MIX RATIO

100 parts resin to 43 parts hardener by weight
2 part resin to 1 part hardener by volume

Note: Care should be taken when dispensing and mixing. Do not attempt to control the cure time by altering the hardener ratio.

DEPTH

Up to 50mm thicknesses can be achieved in a single pour.

CURE CHARACTERISTICS	
Pot Life -100g @25°C (in air)	13 hours
Thin film open time @25°C	72 hours
Cured to Solid State	7 days
Cure to maximum strength @25°C	7 days
Mixed viscosity @25°C	174
Shore 'D' Hardness @25°C	77
Glass Transition Temperature (Tg) (24h @ ambient + 16h @ 40°C)	36°C

Perfect Cast / Deep is self-leveling. Pour from one end of the void to the other in a thin stream.

Air bubbles may form on the surface. Air Bubble release is greatly enhanced by the use of a heat gun or gas torch. Hold the torch 15 cm - 20 cm away from the surface and sweep the torch continuously across the surface for a few seconds. If the flame is held in one spot it will distort the surface or may cause damage to the substrate.

The mixture should be cured in a warm, dust free area. Place a cover or box over the item while curing.

Perfect Cast / Deep is not to be thinned under any circumstances, as it has been formulated to optimal viscosity for this specific application.

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CLEAN UP

Clean the equipment with lacquer thinner, acetone, or alcohol. Follow safety warnings on solvents, and provide adequate ventilation. Clean epoxy hardener residue with warm soapy water.

DO NOT dispose of resin or hardener in a liquid state. Waste resin and hardener can be mixed and cured (in small quantities) to a non-hazardous inert solid.

STORAGE

Perfect Cast / Deep Resin and Hardener will keep for 2 years if kept in original containers at room temperature (15°C to 32°C) and out of direct sunlight. Containers should be tightly sealed to prevent moisture absorption.

HEALTH AND SAFETY

Perfect Cast / Deep Resin and Hardener have moderate sensitising potential, and should be kept out of the eyes and off the skin.

- Use with good ventilation and adequate safety equipment including impervious gloves and safety glasses.
- If skin contact occurs, remove contaminated clothing immediately, and wash the affected area thoroughly with water, avoiding the use of solvents except in the case of massive contamination.
- If eye contact occurs, immediately flush with running water for at least 15 (fifteen) minutes and seek medical advice.

- Do not eat, drink or smoke when using this product.
- If swallowed:
Resins - DO NOT induce vomiting, and contact a doctor or the Poisons Information Centre.
Hardeners - DO NOT induce vomiting, give plenty of milk or water and contact a doctor or the Poisons Information Centre.