

Luci Clear

CLEAR GEL EPOX-E-GLUE

2:1 ratio[§]

Luci clear Clear Gel Epoxy Glue is a two (2) part highly thixotropic gel adhesive. Each component appears as a completely clear solid paste, but as soon as it is disturbed, e.g. by stirring or pouring, it liquefies to a viscous liquid which enables easy and complete mixing of the resin and hardener. After it is disturbed, the liquid product reverts to a near solid gel over a period of 10-15 minutes. This thixotropic behaviour enables the glue to be spread easily, to flow into cracks and flaws in the work to seal and bond them, and finally to be shaped to a neat surface e.g., in making fillets.

APPLICATIONS

- Glue joints needing a clear glue line
- Glue joints with many or varied gaps to produce a clear glue line
 - Clear fillets in high class boat building
- Filling and restoring knot holes or other flaws in timber
- Art resin workers can tint or pigment it and brush it out
- for texturing with minimal pigment smearing or flow.

PHYSICAL PROPERTY DATA SHEET

(Predicted values.)

UNCURED MATERIALS		
Resin Viscosity	mPas	450,000
Hardener Viscosity	mPas	450,000
Mixed Viscosity	mPas	450,000
Pot Life 20 C	Minutes	70
Ratio Resin / Hardener	v/v	2:1
Ratio by Weight	w/w	100:92
CURED EPOXY GLUE		
Tensile Strength	MPa	48
Tensile Elongation	%	6-8
Tensile Modulus	GPa	2.6
Flexural Strength	MPa	76
Shear Strength	MPa	16
Compressive Strength		
@yield	MPa	90
@ failure	MPa	193
Hardness	Shore D	75
Heat Deflection Temperature		
Room Temperature Cure	°C	50-55
80°C Post cure	°C	75-80

[§] Clear Gel EPOX-E-Glue has a 2 parts resin to 1 part hardener mix ratio. This is a different ratio to Bote-Cote EPOX-E-Glue,

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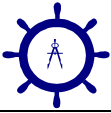
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CLEAR GEL EPOX-E-GLUE INSTRUCTIONS

SURFACE PREPARATION

Surfaces to be bonded must be freshly sanded with coarse grit (40 or 60 grit) abrasive and be free from dust dirt grease or oils. Some surfaces (especially some plastics) are difficult or impossible to glue with epoxies.

MEASURING AND MIXING

Measure out the resin and hardener using graduated containers, plastic spoons, scoops, etc, or for small batches use 3 equal sized blobs (2 of resin and 1 of hardener) on a mixing board. The two parts should be mixed thoroughly but not too vigorously so as to stir a lot of air into it. Elimination of all air bubbles is not possible with a highly viscous thixotropic material.

After mixing, allow the mix to rest for 10 to 15 minutes to give time for the gel character (thixotropy) to develop.

Clear Gel EPOX-E-Glue should be used within 30-40 minutes of mixing

APPLICATION

Best results will be obtained when both mating surfaces are coated with glue. Bring both coated parts together and maintain firm contact until the glue has set and strength has developed. Generally this will be within 24 hours, but low temperatures will retard the cure rate. Do not clamp tightly as a weak joint may result from glue starvation.

If bonding porous materials such as foams, concrete, timber end grain, etc, seal the surface by pre-coating it with Bote-Cote liquid epoxy resin. This will prevent joint starvation due to the porous substrate absorbing resin out of the adhesive.

FINISHING

Clear Gel Epox-E-Glue will cure to an almost invisible glue line so is suitable for clear finishes. However it may be too opaque for use for filling larger holes etc under clear finishes. Clean up any excess glue with a scraper followed by wiping away with a solvent such as acetone. Cured Epox-E-Glue may be sanded, then painted or varnished.

SAFETY

Refer to the safety data sheet. Always wear disposable gloves when handling epoxy chemicals, and avoid prolonged exposure in order to minimise skin sensitization developing. Avoid contact with eyes, wash hands with hand cleaner and water after use, do not use solvents on your skin.

NOTE 1: The product becomes more liquid at temperatures above 30°C and more solid below 15°C. Use outside this temperature range should be undertaken with caution.

NOTE 2: This product is quite translucent when cured, but it will not be water clear due to the tiny air inclusions which do not manage to escape whilst resting after mixing.

NOTE 3: Clear Gel Epoxy Glue has strength and other properties very similar to conventional Bote-Cote Epox-E-Glue.

Retail Packaging Details

Kit Size	
Size	EAN Code
150 grams	9313487031223
450 grams	9313487031230
750 grams	9313487031247



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