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Based on Nuplex
Epoxy Technology

LAMIRES LAMINATING EPOXY RESIN

DESCRIPTION:

Lamires is a general purpose, clear, fluid epoxy resin for laminating with fibreglass.

FEATURES

- Clear, transparent
- Fluid
- Relatively non-yellowing
- High gloss

BENEFITS

- Very little colour
- Easy to apply, wets fibreglass
- Good colour retention
- Attractive

NORMAL END USE:

- Combined with fibreglass cloth for laminates

TYPICAL PROPERTIES

	<u>RESIN</u>	<u>HARDENER</u> (Fast)	<u>HARDENER</u> (Slow)
Appearance:	Clear liquid	Clear liquid	Thin clear liquid
Specific Gravity:	1.15	1.0	
Flash Point:	>100°C	>100°C	
Shelf Life:	>24 months	>24 months	

MIX RATIO: 5:1 (resin : hardener) by weight or volume

<u>POT LIFE:</u> (gel time 80grams @ 25°C (Usable Life)	Fast Hardener 20 - 35 minutes Slow Hardener 60 - 80 minutes
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CURE TIME: Hard after 24 hours but **best** after 48 hours at 18°C. Faster if cured at 34-45°C.

TYPICAL TACK FREE TIME:	24 hours @ 20°C 34 hours @ 15°C
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LAMIRES (cont'd)**COVERAGE:**Use as volume required ($0.001\text{m}^3 = 1\text{Lt}$)1Lt covers 1m^2 @ 1mm thick**SURFACE PREPARATION:**

Timbers: Sand clean and smooth

Metals: Grind clean and bright, wipe with Eposolve 70.

FRP: Sand with medium sandpaper, Solvent wipe and dry.

MIXING INSTRUCTIONS

Carefully mix the product according to the stated mix ratio. The mix ratio is the only acceptable formula. Increased hardener levels result in a weaker product. Mix until uniform and no streakiness is evident. Once mixed thixotropes such as silica, aerosil, Qcells, microballons may be added.

APPLICATION

Mixed Lamires is used to form FRP by mixing with fibreglass cloth in its many formats.

Mixed Lamires is applied to the sealed and released mould. The appropriate Fibreglass cloth is laid into the Lamires and more Lamires product applied. Using a laminating roller the resin is brought up through the cloth, completely wetting the cloth. No air bubbles or dry areas should remain.

The same system applies if the Lamires laminate is to be applied and bonded to the substrate to form a reinforced composite.

CAUTION

- Do not use below 12-15°C.
- Do not use in low temperatures with high humidity.

HEALTH AND SAFETY:

Use gloves wherever possible. Wash hands with warm, soapy water after any skin contact. Re-seal all container tightly. Clean up with Eposolve 70.

CURED PROPERTIES:

Maximum Operating Temperature:	50 -60°C
Density kg/L:	1.1
Elastic Modulus:	2630mpa
Flexural Stress:	30.7mpa
Water Absorption:	0.3% w/w
Deflection & Flex Stress:	2.25mm