

ABL (STEVENS) Resin & Glass

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High Performance Multi-purpose CLEAR EPOXY LAMINATING SYSTEM

This resin is a clear epoxy laminating system formulated to produce clear laminates, coats or fillers with good UV stability.

It is easy to use, cures at ambient temperature and is self levelling.

MIXING RATIO: Resin:Hardener

2.5 : 1 By weight

2 : 1 By volume

WARNING: The mixing ratio must be accurately followed. It is not possible to change the ratio, this would result in lower mechanical properties. The mixture should be thoroughly stirred to ensure full homogeneity. It is important to note that epoxy systems tend to heat up much faster in a pot than as a thin film. It is therefore necessary to only mix the necessary amount usable within the given pot life. Keeping the mixture in flat open containers reduces the risks of exothermic reaction.

APPLICATION:

The standard procedure of working with epoxy systems applies to this resin. The system can be applied by hand, infusion and injection.

Can be used with additives to produce fillers.

The system is clear and has good UV resistance.

When using with glass fabrics, aramid (Kevlar) or Carbon Fibre, the resin required to wet out is approx 1:1 by weight of the fabric. It is advisable to mix an extra 50% resin to compensate for wastage on brushes/rollers and mixing pots.

Not suitable for use with emulsion bound CSM, but can be used with powder bound CSM.

CURING:

Workshop conditions 18 to 25°C, 70% humidity maximum.

Pot life 40 minutes (100g@23°C)

Film touch dry 2½ hours.

Film hard and sandable 12 hours.

Full cure 7 days or post cure for 8 hours @ 60°C.

Please note pot life and cure time will increase in colder conditions, and will decrease in warmer conditions.

MECHANICAL PROPERTIES

Tensile strength	80 MPa.
Flexural strength	120 MPa
Tensile modulus	3,500 MPa
Flexural modulus	3,400 MPa
Tg.	50°C (20°C cure)
Max Tg.	75°C (8h @ 60°C)

PHYSICAL PROPERTIES

Resin aspect	Purple liquid
Hardener aspect	Clear liquid
Resin viscosity	1,500 mPas
Hardener viscosity	70 mPas
Viscosity of mixture	400 mPas
Density of mixture	1.1
Above values at 23°C	

STORAGE:

Shelf life is one year in sealed containers as provided. Keep containers sealed and away from heat or cold.

HEALTH & SAFETY:

It is advisable to follow basic rules such as avoiding skin contact, wear masks when producing dust.

In case of eye contamination, wash with water and seek medical advice.

The data provided in this document is the result of tests and is believed to be accurate. We do not accept any responsibility over the mishandling of these products and our liability is limited to the value of the products we manufacture and supply.