



Epoxy Resin

100% Solids High Performance

FEATURES

Advantages:

- Easy mixing - 4 : 1 ratio by volume
- Excellent cure characteristics with a good "tail" - mixed resin retains good flow throughout its pot life
- Low viscosity with excellent wetting properties
- Ideally packaged for Marine and Industrial use
- Excellent stir in wetting of fairing and glue fillers and extenders
- Cures well at low temperatures
- Good flow characteristics with low viscosity minimizes air entrapment
- Low odour

RECOMMENDED USES

Altex Yacht & Boat Epoxy Resin is a high quality general purpose marine grade epoxy resin. It is excellent for fairing, hand laminating with fibre glass / carbon / Kevlar, encapsulation, wood construction, flooring, and as an adhesive for polyester laminates.

AY&B Epoxy Resin may be mixed with either AY&B Microballoons, or AY&B General Purpose Thickener to provide on-site mix fairing, gap filling glue and coving compounds.

Guide Compounding Formulas:

- High Performance Fairing
 - 1 part by volume of **mixed** Epoxy Resin
 - 3 parts by volume of Microballoons
- Gluing
 - 1 part by volume of **mixed** Epoxy Resin
 - 1 part by volume of General Purpose Thickener
- Filling
 - 1 part by volume of **mixed** Epoxy Resin
 - 2 parts by volume of General Purpose Thickener

SPECIFICATION DATA

Generic Type:	100% Solids Epoxy Resin
Colour:	Pale Amber
Packaging:	NZ: 1.25, 5, and 20 litre kits AU: 20 litre kit
Mix Ratio:	4 to 1 by volume
Flash Point:	Greater than 100°C
Thinner:	Not normally recommended Clean up with Altex Thinner #12
Pot Life:	37 minutes at 20°C (250 grams mix)
Storage:	Store under cool, dry conditions
Shelf Life:	Part A: 48 months at 24°C Part B: 24 months at 24°C

When kept at recommended storage conditions and in original unopened containers. For products/components exceeding the stated shelf life, contact Technical Services for further advice.

Density: 1.10 kg per mixed litre

Typical Properties of Cured Resin:

Shore D Hardness	=	79
Heat Distortion Temperature	=	75°C
Tensile Strength	=	11-12000
		psi
Compression Strength	=	10000 psi
Elongation	=	4%
Flexural Strength	=	16000 psi
Flexural Modulus	=	400000 psi

Note:

Cured properties are strongly dependant on the cure conditions. High humidity combined with low temperatures during cure will have detrimental effects on cured properties, especially those of thin films. Maximum cured properties will be achieved after post cure at elevated temperatures (e.g. 24 hours at 80°C or 3 hours at 125°C).

SURFACE PREPARATION

All surfaces to be bonded or faired should be clean, dry, and free of all foreign matter.

The surfaces should be slightly roughened to promote the adhesion of the glue or fairing compound.

DIRECTIONS FOR USE

Mixing:

AY&B Epoxy Resin is a two-component product that must be carefully and quickly mixed in the correct ratio - 4 parts resin base to 1 part hardener, by volume.

Keep each mix down in volume to maximize pot life. Increased volumes of mix will decrease the pot life. 250 grams of mixed product has a pot life of 37 minutes at 20°C.

Any fibres or modifiers should be added straight after mixing the resin. A firm paddle motion is the preferred method of mixing at all stages. Avoid the use of high-speed mixers as this will tend to entrain air in the mix.

Application:

• Wood Saturation

A foam roller is the preferred applicator. Thin up to 50% with Altex Thinning Solvent #12 to aid penetration.

• Fibre Reinforced Lay Up

Flood and roll out with a ribbed roller to evenly wet the mat and to remove all air bubbles.

• Fairing and Gluing

Use a spatula, broad knife, notched trowel etc. Apply mix to both mating surfaces when gluing.

Note: Do not over-cramp glue joints - epoxy adhesives offer superior strength with a gap-filled glue-line.

Clean-up:

Use Altex Thinning Solvent #12

PRECAUTIONS

For DIY & Professional Use: Read and follow all the caution statements on this Product Data Sheet, the product label and the Safety Data Sheet (SDS) for health and safety information prior to use.

AY&B Epoxy Resin is flammable. Keep away from heat, sparks and open flame. Use with adequate ventilation. May cause eye and skin irritation. Do not breathe vapour or spray. Wear suitable protective clothing such as gloves and eye and face protection.

WWW.ALTEXBOATPAINT.COM

Head Office New Zealand

Altex Coatings Ltd
91-111 Oropi Road
Greerton, Tauranga 3112

Ph: +64 7 541 1221
Fax: +64 7 541 1310

Head Office Australia

Resene Paints (Aust) Ltd
Industrial & Marine Division
7 Production Avenue, Molendinar
Queensland 4214

Ph: +61 7 5512 6600
Fax: +61 7 5512 6697

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