

RESIN MIXING GUIDE

SAFETY

Before mixing any resins or catalyst/hardeners ensure that you are using the correct PPE equipment recommended on the SDS.

- **Safety glasses**
- **Breathing respirator**
- **Latex/Nitrile disposable gloves**
- **Work in a well-ventilated area**

Mixing Instructions

It is recommended to measure ratios accurately the use of electronic scales is ideal. Resin should be mixed in a disposable container such as an ice cream container, mixing well and paying close attention to the sides of the container to ensure that no sections of the resin are not mixed correctly this will occur under cured section throughout the resin.

Trojan Fibreglass uses two methods for mixing ratios, all polyester and vinylester resins are measured by weight. And epoxy resins are measured by volume. Epoxy resins can be measured by weight, but due to the nature of specific gravity of the resin it is important to follow the ratio guide, and the use of electronic scales is essential.

When resin is curing it become hot as it goes through its chemical reaction, we call this the peak exotherm, at this time being extremely careful of the resin left in the container is important, having a water bath on hand to dispose of the container when finished can prevent burns or potentially starting a fire if disposed of incorrectly.

Catalyst safety is extremely important. Methyl Ethyl Ketone Peroxide (MEKP/catalyst) can burn the skin and is very flammable. Following the catalyst safety guide, which can be downloaded on the product page.

Epoxy hardener safety is extremely important. Although not as flammable as MEKP, hardeners are made with a corrosive base resin, and exposure to the skin can cause burns if not treated asap. Breathing mask is a must and ensuring that the product container is left clean and sealed correctly as to have caustic build up around the lid.

For other video tutorials and guides visit www.trojanfibreglass.com.au/learn-how , videos and guides are continually updated. You can also safety data sheets from our website.

Polyester Resin Range

Name	Polyester LSE Laminating Resin
Catalyst Used	Methyl Ethyl Ketone Peroxide (MEKP)
Mixing Ratio	2% by weight Eg: 100gm Resin : 2gm MEKP

Name	Polyester Multi Laminating Resin
Catalyst Used	Methyl Ethyl Ketone Peroxide (MEKP)
Mixing Ratio	2% by weight Eg: 100gm Resin : 2gm MEKP

Name	Polyester ISO Laminating Resin
Catalyst Used	Methyl Ethyl Ketone Peroxide (MEKP)
Mixing Ratio	2% by weight Eg: 100gm Resin : 2gm MEKP

Name	Polyester Core Adhesive
Catalyst Used	Methyl Ethyl Ketone Peroxide (MEKP)
Mixing Ratio	2% by weight Eg: 100gm Resin : 2gm MEKP

Name	Polyester Hot Coat
Catalyst Used	Methyl Ethyl Ketone Peroxide (MEKP)
Mixing Ratio	2% by weight Eg: 100gm Resin : 2gm MEKP

Name	Polyester Surfboard Laminating Resin
Catalyst Used	Methyl Ethyl Ketone Peroxide (MEKP)
Mixing Ratio	2% by weight Eg: 100gm Resin : 2gm MEKP

Name	Polyester Clear Casting Resin
Catalyst Used	Methyl Ethyl Ketone Peroxide (MEKP)
Mixing Ratio	2% by weight Eg: 100gm Resin : 2gm MEKP

Vinylester Resin Range

Name	Vinylester Laminating Resin
Catalyst Used	Methyl Ethyl Ketone Peroxide (MEKP)
Mixing Ratio	2% by weight Eg: 100gm Resin : 2gm MEKP

Name	Vinylester Infusion Resin
Catalyst Used	Methyl Ethyl Ketone Peroxide (MEKP)
Mixing Ratio	2% by weight Eg: 100gm Resin : 2gm MEKP

Name	Vinylester Fairing Compound
Catalyst Used	Methyl Ethyl Ketone Peroxide (MEKP)
Mixing Ratio	2% by weight Eg: 100gm Resin : 2gm MEKP

Name	Vinylester Balsa Core Adhesive
Catalyst Used	Methyl Ethyl Ketone Peroxide (MEKP)
Mixing Ratio	2% by weight Eg: 100gm Resin : 2gm MEKP

Name	Vinylester Fillercoat Resin
Catalyst Used	Methyl Ethyl Ketone Peroxide (MEKP)
Mixing Ratio	2% by weight Eg: 100gm Resin : 2gm MEKP

Name	Vinylester Fire Retardant Resin
Catalyst Used	Methyl Ethyl Ketone Peroxide (MEKP)
Mixing Ratio	2% by weight Eg: 100gm Resin : 2gm MEKP

Epoxy System Range

Name	500 Series Epoxy Laminating Resin
Code Part A	500A
Code Part B	510B, 520B, 530B
Hardener Used	510, 520, 530 Series Hardeners
Mixing Ratio	510B and 520B- 5 Parts (A) : 1 Part (B) by volume Eg: 100ml Resin : 20ml Hardener or 100gm Resin: 18gm Hardener 530B- 3 Parts (A) : 1 Part (B) by volume Eg: 100ml Resin : 33ml Hardener or 100gm Resin : 28.5gm Hardener

Name	1000 Series Epoxy High Clarity Resin
Hardener Used	1000B Series Hardener
Mixing Ratio	2 Parts (A) : 1 Part (B) by volume Eg: 100ml Resin : 50ml Hardener or 100gm Resin : 46gm Hardener

Name	690 Series Epoxy Structural Adhesive
Hardener Used	690B Series Hardener
Mixing Ratio	1 Part (A) : 1 Part (B) by volume Eg: 100ml Resin : 100ml Hardener or 60gm Resin : 50gm Hardener

Name	650 Series Epoxy 5 Minute Adhesive
Hardener Used	650B Series Hardener
Mixing Ratio	1 Parts (A) : 1 Part (B) by volume Eg: 100ml Resin : 100ml Hardener or 100gm Resin : 100gm Hardener

Name	1102 Series Epoxy High Temp Adhesive
Hardener Used	1102B Series Hardener
Mixing Ratio	1 Parts (A) : 1 Part (B) by volume Eg: 100ml Resin : 50ml Hardener or 120gm Resin : 100gm Hardener

Name	900 Series Epoxy Finishcoat Resin
Hardener Used	900B Series Hardener
Mixing Ratio	3 Parts (A) : 1 Part (B) by volume Eg: 100ml Resin : 50ml Hardener or 100gm Resin : 46gm Hardener

Gelcoat and Finishcoat Resin Range

Name	Natural Brush Finishcoat
Catalyst Used	Methyl Ethyl Ketone Peroxide (MEKP)
Mixing Ratio	2% by weight Eg: 100gm Resin : 2gm MEKP

Name	White Brush Finishcoat
Catalyst Used	Methyl Ethyl Ketone Peroxide (MEKP)
Mixing Ratio	2% by weight Eg: 100gm Resin : 2gm MEKP

Name	Neutral NPG-ISO Spray Gelcoat
Catalyst Used	Methyl Ethyl Ketone Peroxide (MEKP)
Mixing Ratio	2% by weight Eg: 100gm Resin : 2gm MEKP

Name	White NPG-ISO Spray Gelcoat
Catalyst Used	Methyl Ethyl Ketone Peroxide (MEKP)
Mixing Ratio	2% by weight Eg: 100gm Resin : 2gm MEKP

Name	Red Tooling Gelcoat
Catalyst Used	Methyl Ethyl Ketone Peroxide (MEKP)
Mixing Ratio	2% by weight Eg: 100gm Resin : 2gm MEKP

Further Information

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