

04.21 Epoxy Resin

PRODUCT DESCRIPTION AND USES

4.21 Epoxy Resin is specifically designed as a laminating and sheathing resin and a general purpose adhesive for the Marine, and other associated industries. With the latest developments in Epoxy technology the 4:1 system offers excellent wet out characteristics giving improved workability and deaeration. Ideally suited for use with fibreglass cloths this system provides a waterproof shield and superior protection of timber substrates.

4:1 HARDENER

Transmarine offer two hardeners to be used in conjunction with 4:1 Epoxy Resin.

Winter Hardener: The use of Winter Hardener ensures quick cure times at lower temperatures, allowing faster turnaround times in the winter months.

Summer Hardener: When longer working times are required the Summer grade Hardener should be used. Designed for warmer conditions (above 15°C) where standard working times are required but still providing an early overnight cure.

Pot life
Winter Hardener
per 100ml 15 min @ 25°C, 35 min @ 15°C

Summer Hardener
per 100ml 25 min @ 25°C

Recoat Time
Winter Hardener
4-5 hrs @ 25°C, 6-8hrs @ 15°C

Summer Hardener
6-8hrs @ 25°C

Flash point
101°C

PHYSICAL PROPERTIES

Mixing Ratio: Mix 4 parts of Transmarine Epoxy Resin to one part of Transmarine 4:1 Epoxy Hardener by volume.

NB: Pot life of Epoxy Resin (mixed) is reduced by mixing larger quantities and as temperature rises. We therefore recommend larger numbers of smaller quantities be mixed.

EXTENDERS

Glue Powder: Mix in with 4:1 Epoxy Resin to increase viscosity to a workable glue without sacrificing the strength of the end product.

Filling & Fairing Powder: Mix in with 4:1 Epoxy Resin to obtain a workable cream which displays excellent working and sanding properties.

4:1 / EXTENDER MIXING RATIOS

	Volume of mixed 4:1 System	Glue Powder	Fairing Blend	Mixed Volume
Fairing Mix	1¼ Litre	-	4 LT	4LT
Glue Mix or Aerosol	1¼ Litre	1LT (75g)	-	1.13LT

NB: Ensure that Transmarine Resin and Hardener are thoroughly mixed before addition of the glue powder or fairing blend.

Clean Up: Transmarine 9.04 or 09.03 Thinners

APPLICATION DATA

Coverage
Wetting coat over 200g (6oz) cloth – 2m²/mixed LT
2nd coat – over 200g (6oz) cloth – 6m²/mixed LT
Summer Hardener – 25min @ 25°C, 6–8 hours @ 25°C

HEALTH AND SAFETY

Irritant
Avoid contact with skin and eyes. Avoid breathing vapour or sanding dust.
When using this product it is recommended that full overalls, gloves,
face mask and goggles be worn. Store container in a safe place when not in
use. Do not burn container.

FIRST AID

EYES SKIN

Flush with water for at least 15 minutes and seek medical advice.
Wash contact areas with soap and water. Remove all contaminated
clothing, and seek medical advice. Do not scrub.

INHALATION

Remove patient from further exposure, and keep patient warm and
comfortable.

INGESTION

Do not induce vomiting. Rinse mouth with water. Seek medical advice as
soon as possible.

TRANSPORTATION AND DISPOSAL

Class 9
Hazchem Code •3z
UN No 3082
Packing Group No III
Fire Extinguishing Media CO₂, Foam, Dry Chemical
Fire Fighting Procedure
Fire fighters should wear self contained breathing apparatus. Fight
fire from a protected location as product may explode on heating.
The vapours are heavier than air, so may travel along the ground to
accumulate in low areas. Fire may flash back along vapour trail, and
can also react with oxidising agents.
Spills should be cleaned up immediately by using sand or other
non-flammable absorbent materials. Ensure material does not enter
waterways.
Dispose of empty containers in accordance with local by laws.

OTHER INFORMATION

This product may be used for a wide variety of surfaces, if the surface you propose to paint is not referred to, contact Protective Paints Technical Department for classification.

For further technical information please phone 0800 724 684.

RELIABILITY OF INFORMATION

All statements and technical information contained herein are based on tests we believe to be reliable but the accuracy thereof is not guaranteed. Since Protective Paints Ltd has no control over product application, purchasers and users must confirm the suitability of our products under their conditions to meet their own requirements.

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