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# 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**

Transomarine 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.

When longer working times are required the Summer grade Hardener should be used.

Summer Hardener:

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

4-5hrs @ 25°C,6-8hrs @15°C

Summer Hardener 6-8hrs @ 25°C

Flash point

101°C

# PHYSICAL PROPERTIES

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

NB: Pot life of Epoxy Resin (mixed) is reduced by mixing larger quantifies and as temperature rises. We therefore recommend larger numbers of smaller quantifies 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 Glue Powder Fairing Blend Mixed Volume 4:1 System

 Fairing Mix
 1½ Litre
 4 LT
 4LT
 4LT
 4LT
 Glue Mix
 1½ Litre
 1LT (75g)
 1.13LT

or Aerosol

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

Clean Up: Transomarine 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 Flush with water for at least 15 minutes and seek medical advice.

SKIN 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

Fire Extinguishing Media CO<sup>2</sup>, 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.

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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