



TECHNICAL DATA

Board and Boat Resin

Epirez 2243

Description

Board and Boat Resin is a new generation epoxy laminating system for use with Kevlar, carbon and glass fibres in the sheathing of boat hulls and leisure boards. The low viscosity and surface tension of **Board and Boat Resin** enables rapid wet-out of fibre reinforcement. A unique feature of **Board and Boat Resin** is the complete absence of the "greasy" finish, which is typical of earlier epoxy laminating resins.

Board and Boat Resin laminated possesses superior adhesion, mechanical strength and durability to earlier epoxy resin systems.

Board and Boat Resin may be combined with many commercially available fillers such as phenolic micro balloons or talc for filling and bonding use.

Areas of application

- Surfboards
- Sailboards
- Wave skis
- Jet skis
- Life saving craft
- Canoes
- Snow skis and snow boards
- Laminating and bonding S & E glass
- General yacht and boat repair
- Laminating and bonding Kevlar, carbon fibre and dynel

Features

- High strength
- Rapid wet-out
- Non-greasy finish
- Very low irritation potential
- Excellent adhesion
- High impact resistance

The information contained in this Technical Bulletin is as up to date and correct as possible as at the time of issue. The data provided should be used as a guide only as the performance of the product will vary depending on differing operating conditions and application methods.

The sale of any product described in this Technical Bulletin will be in accordance with ITW Polymers & Fluids Conditions Of Sale, a copy of which is available on request. To the extent permitted by law, ITW Polymers & Fluids excludes all other warranties in relation to this product.

General Properties

Shelf Life	: 2 Years
Solids Content	: 100%
Colour	: Pale amber
Mixing Proportions by Volume	: 1 part Hardener to 3 parts Compound
Initial Mixed Viscosity	: 0.5 Pa.S at 25°C
Work Time (1 Litre)	: 30 minutes at 25°C
Tack Free Time	: 8 hours at 25°C
Full Cure	: 24 hours at 25°C

Estimating data

20 litres of Board and Boat Resin = 20 m² (total 1 mm dft)

Application directions

Surface Preparation

Timber

Timber should be well seasoned, clean and surface dry. Surfaces should be lightly sanded with open-cut abrasive paper and all dust removed. Apply sealing coat of **Board and Boat Resin**.

GRP Laminates

Sand back to expose clean, sound surface. Dust off and degrease with a suitable degreaser.

Surface preparation guidelines cannot cover all site or field contingencies and it is always recommended that an on-the-spot adhesion test be performed as part of the Standard Quality Assurance audit for the project.

Mixing

Measure Hardener and Compound in the correct ratio. Mix thoroughly using a stirrer fitted into a low speed (400 rpm) mechanical mixer. Ensure that all the material on the sides, under the lip of the container and on the stirrer are incorporated. Take care to avoid air entrapment into the mix.

Application

Any irregularities, holes or sharp internal corners should be filled or filleted with **Episet Structural Adhesive (8242)**. Precut cloth to shape required. This facilitates handling of the cloth during laminating. Coat surface with mixture of **Board and Boat Resin** using a brush or paint roller. Place precut cloth on to the surface and stipple with brush or use a paint roller or specially designed fibre glassing roller, to force the laminating mix up through to wet it out.

Unimpregnated fibreglass areas remain white in appearance, while fully impregnated cloth is transparent to translucent. More **Board and Boat Resin** should then be added to those white areas for immediate re-impregnation. This process is repeated until the required thickness is obtained. Where joins occur, an overlay of 3-5 cm is essential.

After the laminate has cured, the surface is given a light sand to remove small projections of cloth before application of finish coats.

No air pockets or bubbles should appear in the laminate - the use of rollers helps to prevent this. If for any reason the laminate is allowed to cure before completion, the area should be abraded and degreased with a suitable degreaser and laminating carried on as before.

AUSTRALIA

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Cleaning

Tools and equipment may be cleaned before hardening commences by washing with **Epirez Clean Up Solvent**. Do not use for cleaning hands or mixing with product.

Limitations

Board and Boat Resin should not be applied at temperatures below 10°C

Storage and shelf life

Store in dry conditions between 10°C and 30°C, away from sources of heat and naked flames. Protect from frost. When stored in original sealed containers the minimum shelf life is 2 years.

Packaging

Board and Boat Resin is supplied in 20 litre kits. Each pack contains Hardener and Compound in the correct proportions for use.

Ordering Information:

20 litre #922434

Safety precautions

Avoid contact with skin and avoid breathing vapour. Wear gloves and goggles when mixing and using. Keep away from children. Provide adequate ventilation if applied in confined places. If poisoning occurs call Doctor or Poisons Information Centre. If swallowed **DO NOT** induce vomiting. Give plenty of water or milk. If skin contact occurs remove contaminated clothing and wash affected area thoroughly with soap and water.

TDG Code: Hardener - UN 1760 Compound - Not Classified

Note

The figures quoted for work time, tack-free time and cure time are not definitive. They are dependent on job site conditions and will vary accordingly. In all cases we endeavour to provide typical figures for use as a guide.

Health & Safety Information

The product is hazardous. A Material Safety Data Sheet is available from the ITW Polymers & Fluids Technical Department upon request or available on our website www.epirez.com.au.

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