

ThistleBond

www.thistlebond.com

TECHNICAL DATA SHEET

LifeBoat Resin

ThistleBond 'LifeBoat Resin' is a high performance, low viscosity solvent free coating designed for use as a resin repair system for polyester resin laminated hulls of lifeboats and liferafts.

ThistleBond 'LifeBoat Resin' consists of a unique blend of epoxy resin combined with polyamino amine adducts, which have been specifically selected to provide the optimum level of penetration, adhesion and overcoatability.

ThistleBond 'LifeBoat Resin' is simple and easy to use and because of its adhesion properties it can also be used to effectively repair metals, wood, glass and synthetic materials.

ThistleBond 'LifeBoat Resin' is supplied as a kit contained in special watertight packaging to meet accepted marine industry standards.

Before proceeding please read the following information carefully to ensure that the correct proper application procedure is fully understood.

SURFACE PREPARATION

All surfaces must be clean, dry and free from oil, grease and loose material.

Laminated Surfaces: Clean up the damages area both internal and external. Extend the cleaned areas approximately 100-150mm (4-6") all round onto the undamaged hull. The "Gel Coat" on the outside of the hull should be thoroughly abraded, The edges of any holes should be bevelled to obtain the best possible adhesion.

Other Surfaces: Surfaces should be thoroughly degreased and abraded with any resulting dust being removed by vacuum cleaning.

MIXING

ThistleBond 'LifeBoat Resin' is a two component material consisting of a resin component and liquid hardener component. The resin component should be poured into a suitable mixing container and the hardener added and thoroughly stirred until a homogeneous mix is obtained.

The mixed material should be used within 30 minutes of mixing at 20°C (68°F)/ This time will be reduced at higher temperatures and extended at lower temperatures.

APPLICATION

ThistleBond 'LifeBoat Resin' should be applied to the prepared surface by stiff brush or roller to give a uniform even coating taking care to avoid excessive build up and ponding. On rough, pitted surfaces the product should be worked into the surface to ensure complete wetting of the substrate.

There are two basic repair methods, which are both dependant on access to both sides of the damaged hull being obtainable.

Method 1 is based on the approach to be taken when the repair is to be effected from the outside with or without a "Former" being applied on the outside.

Method 2 is based on the approach to be taken when the repair is to be effected from the inside with a "former" being applied on the outside.

Details of both application methods are included in the ThistleBond LifeBoat Repair Kit application Instructions.

All equipment must be cleaned IMMEDIATELY after use with **ThistleBond 'Cleaner'**.

Theoretical Coverage Rate

3 m²/unit at 100 microns dft. (33 ft²/kilo at 4 mils dft).

PHYSICAL CONSTANTS

Mixing Ratio Resin Hardener
 3 1 By weight

Appearance Resin Clear Liquid
 Hardener Clear Liquid

Drying & Cure Times at 20°C/68°F

Usable Life	30 Mins
Touch Dry	4 Hours
Hard Dry	16 Hours
Full Cure	7 Days

Volume Solids 100%

V.O.C. Nil

Shelf Life Use within 5 years of purchase. Store in original sealed containers at temperatures between 5°C (40°F) and 30°C (86°F).

PHYSICAL PROPERTIES

Flexural Strength 754 kg/cm² (10730 psi)
 ASTM D790
Compressive Strength 660 kg/cm² (9420 psi)
 ASTM D695
Tensile Strength 446 kg/cm² (6380 psi)
 ASTM D1002 Grit Blasted Steel
Heat Distortion 47°C (116°F)
 ASTM D648
Hardness (Shore D) 80
 ASTM D2246

HEALTH AND SAFETY

As long as normal good practice is observed **ThistleBond 'LifeBoat Resin'** can be safely used.

Protective gloves should be worn.

A fully detailed **Material Safety Data Sheet** is either included with the material or is available on request.

PACKAGING

Supplied in 0.330kg packs.

The information provided in this Product Data Sheet is intended as a general guide only and should not be used for specification purposes. The information is given in good faith but we assume no responsibility for the use made of the product or this information because this is outside the control of the company. Users should determine the suitability of the product for their own particular purposes by their own tests. Detailed specifications are available on request from the company.

FOR FURTHER INFORMATION PLEASE CONTACT



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