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UPS 17000 Lifeboat Kit contains high performance, low viscosity, 100% solids materials designed for use as a resin repairs for polyester laminated hulls of lifeboats and life rafts.

The kit contains UPS 19001 Lifeboat Resin which consists of a unique blend of epoxy resin combined with polyamino amine adducts, which have been specially selected to provide the optimum level of penetration, adhesion and over-coat-ability.

The material is easy to use and because of its adhesion properties it can also be used to effectively repair metals, wood, glass and synthetic materials.

The materials are supplied as a kit contained in special watertight packaging to meet accepted marine industry standards.

Product Features

- Full range of accessories supplied in kit
- 100% solids coating
- Excellent adhesion & penetration properties
- Excellent over coating properties

UPS 19001 Lifeboat Resin

Physical Constants

Mixing Ratio	3:1 Base : Activator (By weight)
Appearance	Base: Clear liquid Activator: Clear liquid
Pack Size	300gm units
Volume Solids	100%
V.O.C	Nil
Drying & Cure Times at 20°C (68°F)	
Useable Life	30 minutes
Touch Dry	4 hours
Hard Dry	16 hours
Full Cure	7 days

Physical Properties

Flexural Strength ASTM D790	754 kg/cm ² (10730psi)
Compressive Strength ASTM D695	660 kg/cm ² (9420psi)
Tensile Strength ASTM D1002	446 kg/cm ² (6380psi) (Grit Blasted Steel)
Heat Distortion ASTM D648	47°C (116°F)
Hardness (Shore D) ASTM D2246	80

Theoretical Coverage Rate

3m² / unit @ 100 microns dft (33ft² / unit @ 4 mils dft)

Features & Benefits

- Ideal for repairs to cracked or holed GRP hulls & structures
- Contains 100% solids Resin & Hardener
- For use out of water
- Supplied in watertight container



Instructions for Use

Surface Preparation

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

Laminated Surfaces

Clean up the damage area, both internal and external. Extend the cleaned up 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 leveled 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

UPS 19001 Lifeboat Resin is a two-component material consisting of a Base component and Activator component. The Base component should be poured into a suitable container and the Activator added and thoroughly stirred until a homogeneous mix is obtained.

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

Application

UPS 19001 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 surfaces the product should be worked into the surface to ensure complete setting of the substrate.

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

Method 1

This 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 to the outside.

Method 2

This is based on the approach to be taken when the repair is to be effected from the inside without without a 'former' being applied in the outside.

UPS 17000 Lifeboat Repair Kit Kit Contents		
UPS 19001 LBR Lifeboat Resin & Hardener	330gms	3
UPS 19020 Glass Mat	0.5m ²	1
UPS Surface Tissue	0.35m ²	1
UPS Cellophane	250mm X 2.5m	1
Brush	1"	1
Stirring Tool	-	1
Disposable Gloves	Pair	1
UPS 19053 Barrier Cream	110gm	1
UPS 19052 Resin Removing Cream	100gm	1
Instruction Booklet	-	1

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

The information provided in this Technical 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 Unique Polymer Systems LTD. Users should determine the suitability of the product for their own particular purposes by their own tests.

Unique Polymer Systems LTD
Unit 1 Bankside Industrial Estate
Little Marcle Road
Ledbury
Herefordshire
HR8 2DR
United Kingdom