

TECHNICAL DATA SHEET

PRODUCT DESCRIPTION

A newly formulated solvent free liquid epoxy resin suitable for laminating and sheathing with fiberglass & carbon fibre cloth, i.e OceanMaster Sheathing Fabric or chopped strand mat. Allows for easy mixing and has excellent wet out properties. Pair this with the Evershield Pro-X hardener for use in the warm tropical climate. Suitable for both marine & industrial use

DIRECTIONS FOR USE

Usage

Two pack epoxy resin used in conjunction with OceanMaster Sheathing Fabric. The system provides a completely joint free impermeable moisture barrier, minimising water ingress in wooden hulls and decks. Suitable for laminating of fibreglass reinforcement materials.

Coverage

6-8 sqm/litre – depending on usage & substrate

Mixing Ratio

4:1 by weight / volume

Recoating time

6-12 hours max

Sand surface if time exceeds or when preparing for overcoating with a paint system

Pack Sizes

5KG, 25KG

QUICK TIPS

Product designed for roller / brush application

Amine blush may form on surface during curing. Use fresh water to wash off along with a 3M scotch pad to remove amine deposits before painting. Apply layer of primer, ie Everguard Epoxy Undercoat prior to a suitable topcoat.

Key to ensuring a good job is to
Ensure proper surface preparation
on various substrates before coating.

FULL SHEATHING SYSTEM

Everfill Epoxy Resin
Evershield Pro-X Epoxy
Everguard Epoxy Undercoat
Sheathing Fabric
Mohair Roller Sleeve
T500 Epoxy thinner

Contact us for paint estimates & technical advice



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OceanMaster Marine Paints

SHEATHING SYSTEM

Many boat owners feel that sheathing is a job for experts. This is not true, as the total sheathing operation is quite simple and can be approached with confidence by any amateur.

The Sheathing System

OceanMaster sheathing system provides a completely joint free impermeable moisture barrier, minimizing water ingress in new single skin edge glued, multiple skin diagonal planked, laminated or plywood construction hull.

The system requires the application of epoxy filler, a layer of sheathing fabric with epoxy resin, followed by an additional coat of epoxy resin and a coat of epoxy undercoat.

This forms a hard abrasion resistant skin over the timber hull and provides an excellent base for the topside paint and under-water antifouling system.

The Sheathing Fabric

OceanMaster Sheathing Fabric can be tailored easily with ordinary scissors and will drape or form to normal, three dimensional hull shapes.

The fabric also offers the advantages of being non-toxic and non-irritant when sanding and finishing.

The Sheathing Resin

OceanMaster Evershield Epoxy Sheathing Resin is a 2-component product. The Base resin is clear and the Hardener is the colour of light honey.

These liquids must be mixed using the ratio of 4 PARTS BASE to 1 PART HARDENER by weight

The Mixing Process

Mixing the resin and hardener begins a chemical reaction that transforms the combined liquid to a solid. As it progressively cures, the epoxy passes through the following stages.

Liquid (open time) – or working time is when the mixture remains liquid.

Gel (initial cure) – the epoxy is no longer workable and will progress from a tacky. Gel consistency to a tack-free state.

Tack Free – the epoxy is firmly set up but not fully cured. You will be able to dent it with your thumbnail.

When the sheathing resin is mixed, the liquid epoxy undergoes an exothermic (heat up) reaction as it cures.

It is therefore advisable to mix the products in small batches that can be used in 10 to 15 minutes. Pouring the batch into a larger flat tray will help dissipate heat and improve the 'open time'.

We shall take advantage of these different stages to maximize our working time with the product whilst minimizing surface re-preparations during the sheathing process.

Once we have an understanding on the system requirement, the fabric characteristics and how to maximize the workable time of the sheathing resin, we can then approach the sheathing operation with ease.

STEPS IN SHEATHING

Ensure that the hull is free from dust and other surface contamination.

Lay out the fabric, ensuring sufficient end overhanging and overlaps. Temporarily fasten where necessary using masking tape or staples.

Mix thoroughly OceanMaster Evershield Epoxy Resin to the correct ratio of 4 to 1.

Pour mixture into a flat tray.

Apply the resin with a Mohair roller. The roller sleeve should be well loaded with resin to avoid lifting the fabric from the hull. However, do not flood the surface.

Where a clean edge is required, mask the finishing line with masking tape and bring the resin and fabric onto the tape. Allow resin to be tack-free and trim with blade & remove.

Allow 1st coat resin to be tack-free, then apply 2nd coat. This must be of sufficient film to completely submerge all the filaments of the cloth.

Allow 2nd coat resin to be tack-free, then apply Everguard Epoxy Undercoat

On the next day, sand area where the fresh coat of resin and fabric overlaps.

Lay out the fabric and apply resin using same technique acquired.