



FOULING AND OSMOSIS RESISTANT GEL COAT

APPLICATION INSTRUCTIONS

APPLICATION SEQUENCE FOR HULLS LAMINATED WITH POLYESTER RESIN.

- 1 Prepare mould, apply a suitable release agent and masking tape. Protect the underwater area.
- 2 Apply gel coat to the topsides and remove the masking tape.
- 3 Apply one layer of 450 gm/m² chopped strand mat to the gel coat.
- 4 Apply 3 to 5 coats of Seaslip according to the thickness and life required. Slightly overlap the gel coat.
- 5 Apply 1 coat of Safeguard TSF, solvent free epoxy-ceramic epoxy moisture barrier coating.
- 6 Optionally apply 2 or 3 more coats of Safeguard TSF to provide osmosis protection.
- 7 Apply 1 coat of vinyl ester resin.
- 8 Laminate hull with usual procedure and lay-up.

Osmosis resistance can also be increased by substituting the optional coats of Safeguard TSF with a vinyl ester laminate.

EPOXY AND VINYL ESTER HULLS

Most epoxy laminating resins can be applied directly to Seaslip and vinyl ester laminates can be applied onto Safeguard TSF without the procedure that is required for polyester resin. Sample plaques should be made with proposed resins and tested to ensure compatibility and inter-coat adhesion.

PREPARATION The mould must be prepared by applying a release agent that is suitable for both Seaslip and the gel coat that will be used on the topsides. Freewax has been found to be effective and gives excellent results. Several coats of Freewax are required to ensure an even coat and total coverage. If other release agents are to be used a small trial molding should be made to test its effectiveness. Apply fine line masking tape to the waterline and press well down. Protect the area below the waterline.

GEL COAT. Apply the gel coat to the top sides and remove the masking tape before the resin has set. Apply a layer of 450 gm/M² chopped strand mat to protect the gel coat.

MIXING. Add all of the hardener to the resin and stir thoroughly. Add the copper powder slowly while stirring, continue stirring until a smooth lump free, creamy consistency is obtained. A small amount of Syntac solvent may be required in cold conditions. Excessive amounts of solvent should not be used because it will cause the copper powder to settle out. SEASLIP has a pot life of at least 8 hours but if left unstirred for any length of time it will require re-mixing to re-disperse the copper powder. Unused Seaslip can be kept in a fridge for a few days for later use.



REACTIVE RESINS



Seaslip is easy to apply with a medium pile roller

APPLICATION SEASLIP can easily be applied with a 7" or 9" roller or with a large brush. It can also be applied by spray to larger areas using low pressure conventional or high pressure airless equipment. (please refer to the spray application instructions). Apply one coat and allow to dry, it will take 3-6 hours at 15-20°C. Avoid applying very thickly as it will take a long time for the solvent to evaporate. Three or more coats will be required and an extra coat on high erosion areas such as the waterline, bow and rudder are advisable. Apply successive coats within 18 hours of the previous coat. Over-coat with Safeguard TSF within 48 hours to ensure good inter-coat adhesion.

BARRIER COAT An epoxy barrier coat is required to separate Seaslip from the vinyl ester resin, as copper prevents un-saturated resins from curing. Safeguard TSF is a solvent free two part epoxy-ceramic coating designed for protection against osmosis. It is specified because it contains additives to ensure that it bonds chemically and permanently to the vinyl ester tie coat. Safeguard also provides an excellent barrier against moisture penetrating the laminate.



Applying Safeguard TSF with a 7" medium pile roller

Allow the Seaslip to cure for 12 hours (at least until dry and firm) before application of the Safeguard TSF epoxy barrier layer. Add all of the hardener to the Safeguard TSF base resin and stir thoroughly with an electric mixer. The temperature of the material and the mould must be above 15°C to ensure a low enough viscosity for easy application. Too low a temperature makes the product difficult to apply and if it is too sticky there is a danger that the coatings may be pulled away from the surface of the mould by the roller.

If more than one coat of Safeguard is to be applied successive coats may be applied as soon as the previous coat has tacked up sufficiently to prevent sagging. Use different shades for each coat so that the fresh coat can be easily seen.

APPLICATION OF VINYL ESTER RESIN A coat of vinyl ester resin is required to ensure a chemical bond between the Safeguard TSF and subsequent layers of polyester laminate. This can be applied as a coating or laminated with 450 gm/m² chopped strand mat. This stage can be omitted for craft constructed of epoxy or vinyl ester resins.

POLYESTER LAMINATE If 450 gm/m² csm has not been applied with the vinyl ester a layer should be applied with polyester prevent print through. Apply the remainder of the laminate in the normal way.

DE MOLDING De-mould in the usual way. If a suitable release agent has been correctly applied Seaslip will release easily from the mould and will have a perfectly smooth and shiny surface.