Getting ready

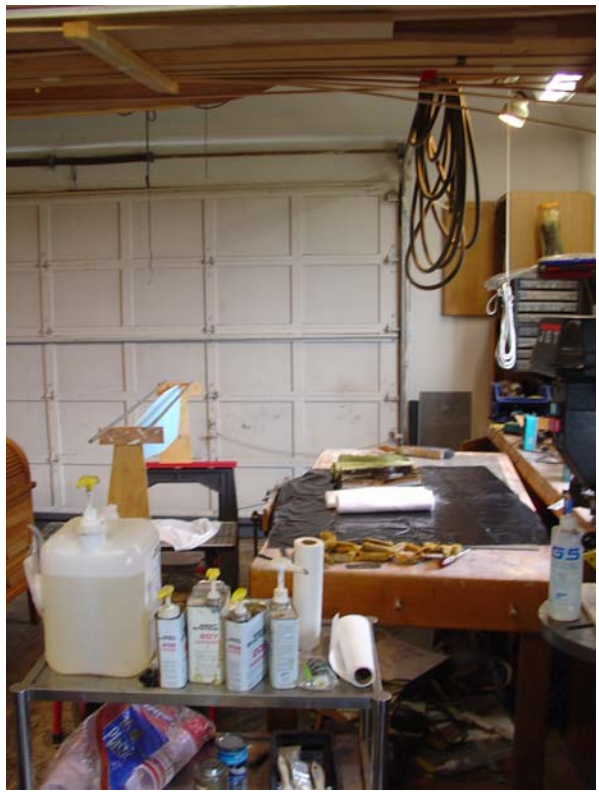
Here the two pieces of the foam blank have been bonded together and to the plywood stand with 5 minute epoxy. An 8” x 10” piece of plywood has been drilled with holes 6 inches apart and cut in half. They were then bonded to each end with 5 minute epoxy and some rods are placed in the half holes. These rods provide a platform to roll out each layer, unfold it, and drape it over the blank without getting it stuck to the wet epoxy. The optical marker on the clothe is then straightened over the leading edge. The material is then pushed down into the wet epoxy about 3 inches on each side. Finally, the remainder of the cloth is pushed through the gap and the rods removed until you are ready for the next layer.

Getting ready

The two pieces of 3/8” plywood are the same size and shape as the saddles. The will be bonded with fours spot of 5 minute epoxy to the outside of each saddle. You can remove the foam saddles and use these for other centerboards later.

Getting ready and laying it up

Below you see the materials lined up in the order of use. Every piece was cut full width (25 inches) and one strand was removed from the very center as a optical marker. The material was folded along the missing strand marker and rolled up. Roll 1 hybrid is cut 16 inches short. Roll 2 and 3 hybrid is 1 inch short of the blank. Roll 4 carbon is 10 inches short while roll 5 and 6 carbon is 1 inch short. Roll seven is peel ply cut 4 inches wide (29 inches) and full length. Roll eight is cotton cloth that is applied last to absorb the excess epoxy.



Before starting the layup, cut the saddles 1” short of the blank so that you’ll not have a problem fitting it between the stands when you’re done.

Sorry for the poor quality. This picture shows the garage with everything ready to go.

Start the lay-up by wetting out the blank with epoxy with enough silica in it to make it like thin cream. Roll the first layer of hybrid on the rods, unfold it and drape it over the rods. The optical marker on the clothe is then straightened over the leading edge. The material is then pushed down into the wet epoxy about 3 inches on each side. Finally, the remainder of the cloth is pushed through the gap and the rods removed until you are ready for the next layer.

finishing

Apply the epoxy on each layer with a brush over the leading edge and down about 4 inches. Squeegee it down to the trailing edge. After installing the last layer of carbon, install the peel ply and then the absorbent cloth. Place the saddles with the plywood attached on each side a little high until you get a clamp in place. Then slide the saddles down the last ¼" and clamp the entire assemble. Let cure overnight and remove the plywood from the saddles and the saddle from the assembly. Peel the peel ply off and trim the edges. More later on finishing the blades