Wing Fabrication, DR2 Aircraft
AAE451, Fall, 2000

Applying resin to first layer of fiberglass, mylar placed between fiberglass and mold surface

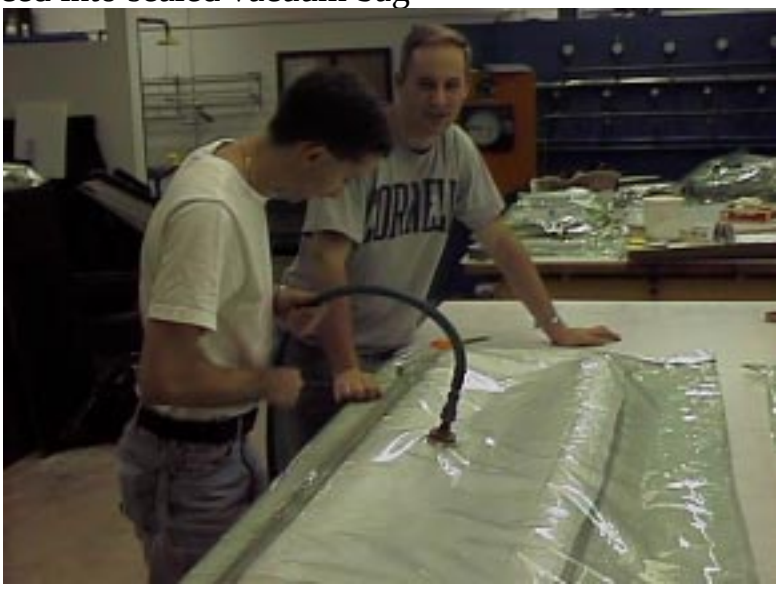
Resin and microballoons applied to foam core and placed on top of fiberglass.

Second layer of fiberglass and resin applied

Teflon sheet laid on top of fiberglass, resin will not bond to the Teflon, but allows excess resin and air to pass through.

Bleeder and breather sheets applied to hold excess resin

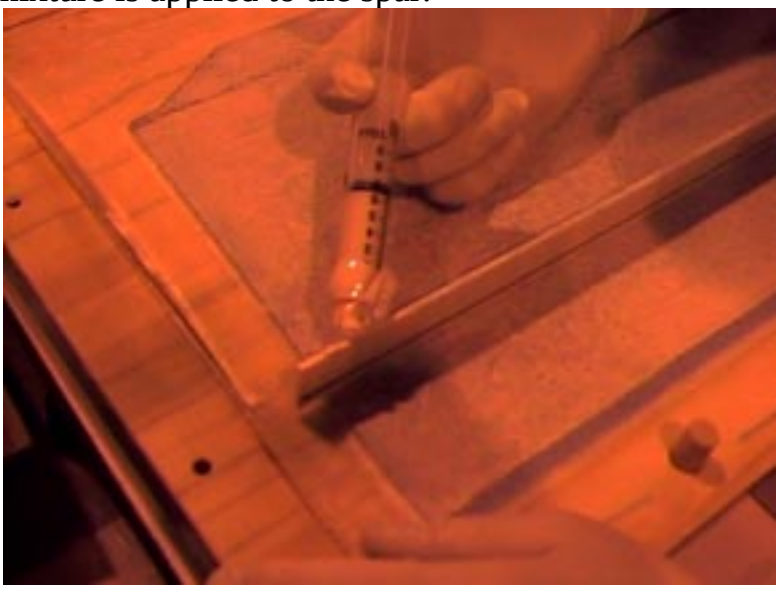
Build-up placed into sealed vacuum bag



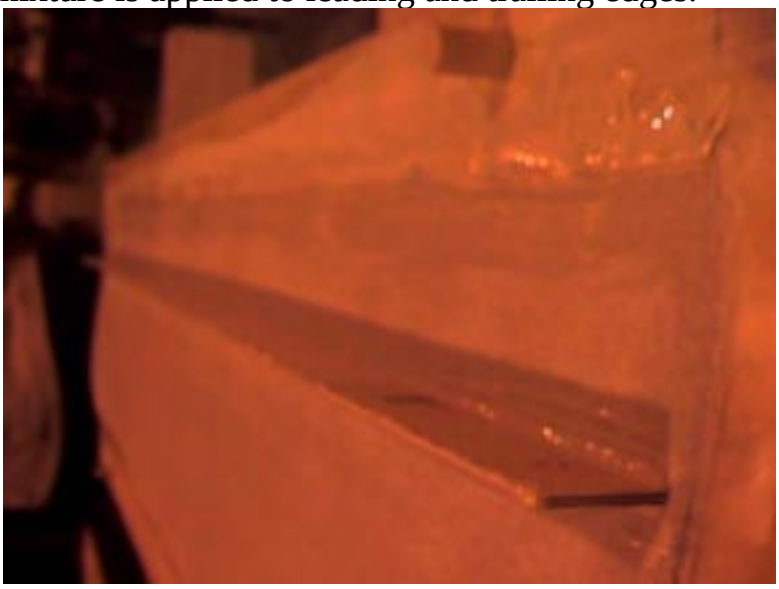
Vacuum applied to bag, outside air pressure holds skin build-up to mold surface. Vacuum held overnight.

Mylar, Teflon, breather and bleeder sheets are removed and spar location is set.

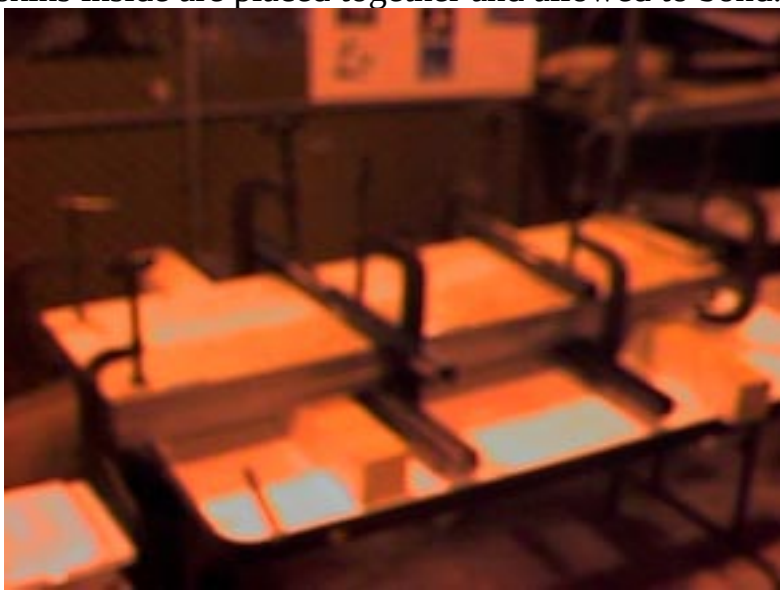
Thick resin mixture is applied to the spar.



Thick resin mixture is applied to leading and trailing edges.



Molds with skins inside are placed together and allowed to bond.



Wing is removed from molds with rough edges.

Leading and trailing edges and sides are trimmed to design requirements.