

From: "Tandy Walker" <rdb435021@icloud.com>

To: "Tandy Walker" <rdb435021@icloud.com>

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Subject: 52 Lancer 850 - Glue

Report No. 52
New Cyclone Lancer 850
February 4, 2018

In preparation for planking the wing's leading edges and center section, three types of aliphatic glue shown below were purchased. The Titebond Extend and the Titebond III Ultimate are supposed give more working time because they take longer to set up and dry. However, Alfredo Herbon warned me that the Titebond III Ultimate has a tendency to turn brown when it dried, based on his past experience. I did not try it, but eliminated it anyway. I am concerned that the Elmer's Carpenter's wood glue that I use all of the time will not provide sufficient time to get the leading edge planking in place before it starts to set up. Therefore the Titebond Extend wood glue seemed to be the most promising with its advertised longer drying time.



I decided try out the Titebond Extend wood glue yesterday by planking the bottom of three sections between the secondary spar and the trailing edge as shown below. These section were easiest to plank and gave me a chance to get some experience with using the Extend wood glue. The Extend glue seemed less viscous (thinner) than the Elmer's glue and maybe took a little longer before it started to set up.



Once the glue dried, I removed the pins in the planking which left a number of unsightly holes in the planking. *Here is good tip for you who have never tried it. Before sanding the planking, put a small amount of water on each pin hole with a wet a Q-Tip. Then carefully iron over each wet pin hole in the planking with a heating iron set around 3-1/2. As the water sizzles and evaporates, the steam closes up the pin holes in the balsa planking making the holes*

virtually invisible.

Then the 1/16" balsa planking was lightly sanded and the bottom hole in the wing's rear attachment plate was drilled out. As you can see in the picture below, there are no visible pin holes in the planking.



This morning after attending early church and taking Sue to breakfast, we came home and I planked the top center section between the secondary spar and the wing's rear attachment plate as shown below.



While the Titebond Extend wood glue did take a little longer to set up, I am still not sure it is the right adhesive to glue the wing's leading edge planking on with. I may use Titebond Extend, or medium CA, or a combination of Titebond Extend and medium CA. However, work on the wing was stopped for the day to clean up and prepare for Sue and I to watch the Super Bowl.....Tandy

