

Cowling Repair

Cowling repairs are made easy with Epo-Grip Adhesives!

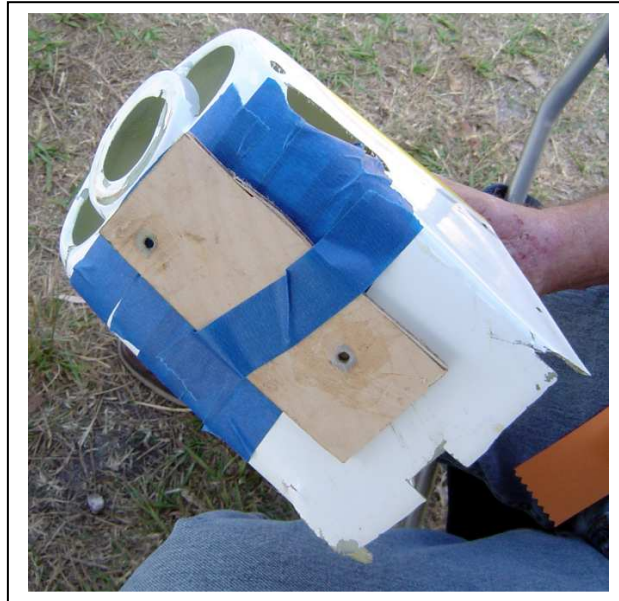
Here is a cowling from an Ultimate 40 Bipe in need of repair, salvaged from a trashcan with the remainder of the bird for rebuild. Although the cowl is badly damaged from poor venting cuts or crashes it is not all that difficult to repair to serviceable condition.



The first step is to thoroughly degrease and sand the cowling before attempting any repairs.

The second step is to stop drill any cracks to prevent further running into the cowl.

Now we are ready to close up the unwanted open areas of the cowling. A simple method to do this is to apply blue painters tape over the open areas of the cowl to be filled. If the opening to be filled is large using some kind of backing behind the tape for support is a good idea until the adhesive cures. In this repair we used a piece of plywood as support until the adhesive cured.



It's now time to fill in the holes. The smaller openings such as needle valve and screw holes only require application of Epo-Grip Model Matrix to the inside of the cowl. Since Model Matrix is a milled fiberglass filled product, it offers its own support for the repair area. For larger openings we use Epo-Grip Clear Paste adhesive and fiberglass tape for reinforcement. The Clear Paste product penetrates the fiberglass tape easier than Model Matrix as it is not filled. Once the adhesive cures remove the backing or tape from the repair area.



After you have the cowling openings replaced to your satisfaction its time to sand and prime making the cowl ready for paint. Use auto body glazing putty for removing any final flaws before final priming and paint.

Below is the finished cowl back on the bird!

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