



The Latest in Waterborne Technology for the Aerospace Industry

FAR 23 approved and STC'd for certified aircraft
Non-hazardous, non-flammable and EPA compliant
Durable high-gloss finish
Complete system for fabric, metal and composite
Very light-weight
Competitively priced
Everything you need to finish your aircraft in one stop!

Fabric Covering – Water-Based Adhesive



Any covering project starts with fabric. The Stewart Systems process is STC'd for use with any certified Dacron fabric such as Ceconite or Poly Fiber, but we prefer the characteristics of Super Flight fabric. Our system begins with our glue, EkoBond. **EkoBond is unique in the industry in that it is a water-based adhesive and can be thinned with water.** It is very easy to work with and emits no fumes. The fabric-to-fabric bond it creates is truly amazing. It is certified for a 1" overlap in an open bay. Ekobond is first applied to the airframe and allowed to dry. Then the fabric is rubbed into it to hold it in place gently, but it can be easily repositioned. Going over it with an iron will soften the glue and hold it securely, eliminating the need for clamps. For a permanent glue joint, additional Ekobond is brushed into fabric and the excess is wiped off and you are done. It really is that easy!

Fabric Covering – Seal, Protect & Prime



After the fabric is glued in place, heat shrunk, and all finish tapes applied, the next step in any system is to apply a product or products to seal the weave, provide UV protection for the fabric, and act as a primer for the topcoat to adhere. With Stewart Systems there is one product that does all of these things. **EkoFill seals the weave of the fabric creating a surface that can be painted with a topcoat while at the same time provides an exceptional level of UV protection.** The first application of EkoFill is applied with a brush to ensure that it is worked into the weave of the fabric and good adhesion is achieved.

The following coats are normally applied with a paint spray gun. However, for those who are covering their aircraft in an environment that is not practical to spray, EkoFill may be rolled on with good results. The EkoFill is lightly sanded between coats and prior to applying the topcoat.

Fabric Covering – Topcoat



EkoPoly Premium is the Stewart Systems topcoat. **EkoPoly Premium is a high-tech catalyzed waterborne paint system.** It is a very high-gloss and durable product with incredible flexibility. EkoPoly Premium will not get brittle or crack, even after many years of being outside exposed to weather and sun. Even in extreme cold, it remains flexible. It is impervious to all types of fuel and most chemicals.

EkoPoly Premium is mixed with its catalyst and distilled water prior to application. Normally, it is applied with a paint spray gun, however, it can also be applied with a foam roller. Spraying EkoPoly Premium does not require a high-priced paint gun. We recommend a Devilbiss Finishline as a good all-purpose paint gun. The technique used for spraying EkoPoly Premium is a little different than other solvent-based systems, but this technique is clearly demonstrated in our videos and is quickly mastered by beginners. Whether you are a master painter or a complete novice, you can achieve beautiful results with Stewart Systems.

Metal & Composite – Aircraft Finishing System



Stewart Systems is not only the world's leading waterborne fabric covering system, but we also offer that same waterborne technology in a system for finishing metal and composite aircraft. This system starts with one of our water-based primers. **For normal applications, EkoPrime is an excellent single part primer with outstanding adhesion and ease of use. For more demanding applications, such as exposure to salt water or solvents, we offer a two-part epoxy primer, EkoPoxy.**

Once your surface is prepped and primed, you are ready for our two-part catalyzed waterborne topcoat, EkoCrylic. EkoCrylic is very similar to EkoPoly Premium in its characteristics and application and is offered in identical colors and sheen. Since flexibility is not a concern in metal and composite aircraft, EkoCrylic is formulated to be harder and more durable on surfaces such as aluminum and composite than EkoPoly Premium. **EkoCrylic will give you a durable, high-gloss finish on your aircraft that you will be proud of for many years to come, without all the hazardous solvents and fumes of other systems.** As with all of our primers and topcoats, when you are finished spraying, simply dump the remaining product from the gun into the trash (or back in the can if using EkoPrime) and clean up with water.



First-Class Product Support

Not only does Stewart Systems supply high end aircraft finishing products, but we also back it up with first-class product support. When you call Stewart Systems, **your call will be answered by one of our friendly staff**. When you have technical questions, you can talk to people who actually cover aircraft with our system... and fly them! If you call in to **get a quote on a project** you are working on, we will include all of the items you need, including consumables such as paint brushes and sandpaper as well as the necessary tools. Our goal is to provide you with everything you need in one stop to save you time.

The **Stewart Systems website is full of helpful information** including our Procedures Manual and comprehensive instructional videos. You can purchase all of our products online from our website or from our dealers and distributors across the nation and around the world. Stewart Systems also offers fabric covering and painting workshops held around the nation and internationally to help you learn the best techniques for using our products. Please see our website for more information.

