Carbon Fiber Wrapping Kit Basic Instructions

In your part wrapping kit you will receive the following materials.

1. Carbon fiber fabric
2. Epoxy resin
3. Epoxy hardener
4. Black pigment
5. Partall paste #2 wax
6. Mixing containers, gloves, sticks, spreader and misc accessories

This guide will give the basic steps to follow to successfully wrap your parts in carbon fiber to give them that look you desire. There are other methods to wrap parts that may work better in certain situations but this method should cover the almost all potential applications.

1. Once you have found the part you want to cover then cut out a piece of carbon fiber to cover the part in the area that you want to cover. Make sure to give a few extra inches all around the edge because the fabric will change shape when you press it around the curves of the parts.

2. Now sand the part with a 60 or 100 grit paper to roughen up the surface. Some materials will naturally be rough so sanding may not be needed.

3. Apply partall paste #2 wax to any area that you do not want resin to stick to at all. Make sure you do not get the wax on the area you want to cover in carbon fiber otherwise the carbon fiber and epoxy will not stick to the part. The wax is made to keep these strong epoxies from bonding to other items.

4. Mix a small amount of epoxy and hardener. Add black pigment to this first coat. Add at a ratio of about 1oz per quart to give a deep black color. Once you have mixed the epoxy, hardener and pigment, use a brush and brush a thin layer of epoxy onto the part on only the area you want to cover with carbon fiber. Make sure this coat is very smooth otherwise it will show up on your final part. (If you do get large lumps, wait for the epoxy to cure and sand it down with 100-grit paper so it is smooth.) Now wait a few hours for the black epoxy to be tacky to the touch. You are at the right time to apply the fabric. Take your fabric you made in step one and start laying it onto the part,

pressing it down into the tacky epoxy. (If you waited to long and the epoxy became hard, then you must lightly sand the epoxy and reapply another coat. This coat could be clear or tinted black.) The black pigment for the base coat will prevent the color of the underneath part to show through the small gaps in the weave on the material.

5. Wait a few more hours for the epoxy to harden more and secure the fabric in place.

6. Now that the fabric is in place and secured to the part, mix up some clear epoxy (pigment will not be needed anymore) and apply a coat to the part, wait a few hours for the epoxy to tack up, then apply another coat. Repeat this process for 3-4 coats. This will give you a thick enough coat to sand where you will only be sanding the clear resin and not sanding into the weave of the material itself. If you sand deep and into the fabric, it will ruin the look of the part and you would have to start over unless you did not mind the odd spot in the part.

7. Once you have the final coat of resin applied, wait about 12hrs to get a full cure then you can start sanding the part smooth. The amount of sanding you do will depend on if you clear coat the parts or not.

7a **Finishing with clear coat** (recommended). Start sanding with about 150 grit and work your way to 600-800 grit. Then use a urethane clear coat (with UV protection) to spray on the part. This will give you a clear shine, fill in the minor scratches and also give UV protection to your part to prevent damage from the sun.

7b **Finishing without clear coat.** Start sanding with about 150 grit and work your way to 2000 grit. Wet sanding works better once you get to 400 grit paper. Make sure you fully remove the deep scratches from the previous grit paper before you move on otherwise they may show up in the final part. Once you have sanded to 2000 grit your part will look ok but you will need to use a polishing wheel or a buffer and buff out the shine with a polishing compound. You can use the same materials you would use to buff a car. You will need a power buffer. Doing this by hand may not work. This will get rid of all the final imperfections and give you your flawless part you wanted.

If you have any questions please email us at info@compositeenvisions.com and we can help you with your problems you are having.