

## Tech Tip, Graco Fusion CS

The start-up procedures are basically the same for all of these guns. After prepping your materials and pressuring up your proportioning unit:

- Turn the air on to the gun. Purge air exiting from the mix chamber should be present at this point - The air should always be the first thing on and the last thing off.
- Trigger the gun 2 or 3 times to ensure proper mix chamber movement.
- Open one of the two material valves and, without triggering the gun, check for misting of material from the tip of the gun. If no misting is present, proceed to step #4.
- Open the second material valve and, again, check for misting. If no misting is observed proceed to step #5. If misting is observed in either step #3 or 4, STOP! It is an indication that there is an internal leak in the gun (most likely at the side seal / mix chamber mating surface) and it is unlikely to repair itself. Allowing this material to continue to leak will cause pressure imbalances on the proportioner, gun crossover, and it's possible for the material to back up into the air passages of the gun and even into the whip hose. If misting is present it is better to go to a second (back-up) gun or clean and repair the original gun.
- Spray a small test shot of 2-3 seconds on a disposable surface (cardboard or plastic sheeting), then check the gauges on the proportioner. If the gauges are showing equal pressure, then proceed with spraying the job. If they are not showing an equal (or near equal) pressure, this is an indication of possible blockage in the gun, inadequate supply of material to the proportioner, or internal problems with the proportioner.

Proper shut-down procedures for the Graco Fusion CS are a little different than other air purge guns. After parking your proportioner, if you intend to stop spraying for a period of time greater than 15 minutes (even if you leave the proportioner on), or if you are turning the air to the gun off for any reason, you should go through the normal shut-down procedures as prescribed in the owner's manual. Follow the shut-down procedure exactly as described in the owner's manual. Excessive use of grease on this gun will clog the Clear Shot liquid dosing function. If you need assistance with this gun please either contact our Georgia home office or contact me directly (the contact information is listed at the end of this article).

I cannot emphasize enough that proper cleaning during repair is critical to ensure the gun will perform well the next time it is used.

If you find yourself asking, "Is this clean enough?".....it's not! You should pay particular attention to all of the air passages in your gun, especially the passages related to the air purge. These are very critical and the most commonly overlooked areas of the gun during repair / rebuild. Using a good quality gun solvent like CU-6 (we recommend warming it in a crock pot or similar device) and purchasing a gun cleaning kit for your gun will assist you tremendously in this step of the repair process. I would also recommend that you replace all of the O-rings when doing a complete rebuild on your gun.

Another, often overlooked, area of good gun maintenance is the availability of spare parts (o-rings, side seals, mix chambers, etc.). You should always have enough spare parts on hand to rebuild each one of your guns at least once. As you well know, downtime is very expensive. Additionally, overnight freight charges to rush parts to you take money out of your profits.