

# KV100 Corona Ring Kit

A “Corona Ring” works by removing free ions (surplus powder charging energy) from the charge cloud between the tip of the gun and the part being coated.

They are extremely useful because roughly speaking, only 1% of the charge coming out of the gun tip ever actually gets used to charge the powder leaving a lot of unneeded charge particles in the charge cloud which can interfere with recoats, Faraday Cages and finish quality.

When you use a Corona Ring it acts like a magnet, drawing the majority of those excess free ions away from the charge cloud and giving them an easy path to follow to ground leaving just right amount of powder charge leftover to get the job done.

Corona rings are particularly useful when spraying metallic and textured powders as they provide a higher quality finish and they can make recoats dramatically easier to apply.

## Here’s how to use the ring...

1. Slide the ring over the nose cone of the gun with the stainless steel ring facing the tip of the gun. Use the black clip to route the wire to the back of the gun for ease in use.
2. Connect the Alligator clip to the ground lug at the back of the gun controller.
3. **Set the Kv a little HIGHER** than the recommended setting for the powder you are using. **Try 5Kv to 10Kv to start** and turn the Kv up or down as needed from there.
4. **Keep the gun tip a minimum of 4” from the part and a maximum of 8” away from the part** and test coat the part moving the gun tip closer and farther from the part and adjusting the Kv setting until you find the distance and setting that works best for your particular part.

**Pro Tip: Closer is not better.** The ideal gun to part distance when using this Corona Ring on the KV80 is 4” to 6”. Any closer and the ring will not work. Any farther than 8” and the ring will not work.

## 100Kv Powder Coating Kit

