

Liquid Lens™ Doming Process – 3 Easy Steps



Your Doming Environment

Prior to applying Liquid Lens™ resin, always ensure that your doming environment is:

Clean: To prevent dust contamination of the finished dome.

Warm: To ensure correct formation of each dome and allow the resin to cure - Optimum temperature is 22°C or higher

Dry: High humidity will adversely affect the doming process. Make sure that the room is dry (less than 45% relative humidity) and use a de-humidifier if necessary.

For best results we recommend using our doming box which controls optimum temperature, humidity and dust contamination. It also includes a leveling system and alloy stackable work trays for optimum production.

Step 1

Position label sheet on a work tray on a flat level surface, coated with a low tack adhesive if necessary. This will keep the printed sheet of labels flat during curing of the resin. With the printed label sheet pressed firmly onto the adhesive surface, carefully remove the waste layer, leaving behind the printed images and lower release paper. Make sure that each sheet is flat on the work surface before applying the Liquid Lens™ resin.

Step 2

Assemble the resin applicator gun and load a resin cartridge. Twist the resin cartridge end cap through 90 degrees and remove including the rubber inner cap. Attach a static mixer using the same twisting procedure. To ensure correct initial mixing of a new resin cartridge always discharge the first 5ml of material to waste. There are various key factors to observe in order to produce successful domes with little or no wastage. Apply resin at a slow uniform speed. Always apply less resin than you actually think is necessary and always give the resin time to flow to the edge of the label.

As a basic guideline apply enough resin to cover approximately two thirds of the printed surface area. Remember that after initial application wait before applying additional resin to the dome or before carrying out any repairs (removal of air bubbles, overspills, dust etc).

Step 3

Wait approximately 5 minutes after application and check the surface of each dome for trapped air bubbles. To release air bubbles "flash" the surface with heat by igniting the bubble removal flame gun very quickly. Do NOT expose the domed decal to excessive heat as this may cause the resin to fail.

Cover the finished sheet of decals with the next work surface to protect the domes from dust contamination during the curing stage. The domes will be cured and ready for application after 4 hours. If a doming box is used resin will be cured within 2 hours.

For further information or to download a video showing the complete process visit www.liquid-lens.com