

Coat Your Own - CYO™ Sublimation Spray Instructions

Read These Instructions COMPLETELY before you begin.

CAUTION: THIS PRODUCT IS NOT INTENDED FOR USE IN THE HOME!
Use only in well ventilated area. Wear respirator and eye-protecting goggles.
Do not use in an oven intended for food use.

Supplies Needed

- CYO 10 oz. Spray Can
- Substrate(s)
- Respirator, eye-protecting goggles, latex gloves, heat resistant gloves, and other appropriate safety gear.
- Toaster oven, lab or shop curing oven, conveyor oven, or a regular household oven.
CAUTION: This product should never be used in any oven that will later be used to cook food! Do not use a microwave oven!
- Laser thermometer gun (recommended)
- Xylene or Acetone for clean-up
- Tack rags

The following **recommended supplies** are available from Laser Reproductions:

- 3M Respirators - \$24.99 / ea (3M #07192 Dual Cartridge Respirators, NIOSH- and OSHA-approved)
- Latex Gloves: \$3.00 / 6 pair
- Tack Rags: \$2.00 ea

Product Description

- Solvent-based sublimation coating. Gloss finish. Scratch resistant.
Coating will never totally air dry. Apply one or two coats.

Recommended Uses

- Sublimation coating for glass, ceramic tile, tumbled stone, aluminum and steel. Acceptable for products that will be used in wet areas or under water. We do not recommend CYO for use with wood or fabric products.

Production

- Use in well-ventilated area. Shake well before use.
- Always pre-clean substrate prior to spray coating.
- **CAUTION!** Spray can and coating are **flammable!**

Clean-up

- Xylene or Acetone

Step 1: Prepare the Area -- CAUTION!

- Propellants in spray can, as well as paint fumes, are flammable. Appropriate care and preparation must be taken.
- Choose a well-ventilated spray and curing area, well away from open flames, sparks, and/or heavy equipment. The spray area should be as clean and dust-free as possible.
- For personal safety, we strongly recommend use of OSHA-approved respirators, eye-protective goggles, heat gloves, and other appropriate safety gear.
- Follow local safety regulations for proper use and/or disposal of any paints or solvents.
- Although the spray coating can be cured in a toaster or household oven (not a microwave!), it is never, ever to be used in any oven that will later be used to cook food.

Step 2: Adjust The Oven

Under **NO** circumstances should you use CYO Sublimation Spray in a home or in any oven that will be used to cook food. Use **ONLY** in a well-ventilated area. **DO** use appropriate safety gear, including respirators and goggles.

Oven Temperature: **Items must be placed in a cool oven.
This is important. Do not pre-heat the oven.**

Dwell Time: **Varies based on the substrate**

***Note:** These instructions, including transfer times and temperatures, are based on the inks, paper, presses, and products we use. Your inks, papers, etc. may require adjustments in your time/temp settings.*

Step 3: Prepare the Substrate Surface

1. Use latex gloves when handling substrates.
2. Before coating, pre-clean substrate with isopropyl alcohol and a lint-free cloth. Remove all contaminants, oil, grease, and loose dirt from the surface of each item.
3. Allow item to dry completely. The surface of each item must be clean and dry prior to coating.
4. Store clean items in a clean, air-tight plastic container.
5. Immediately before coating, wipe the clean, dry surface of each item with a tack rag.

Step 4: Apply Coating (for Ceramic, Glass and Metal only)

1. On non-porous substrates such as ceramic tile, glass and metal, apply one very fine mist of coating as a pre-coat.
2. While the pre-coat is still wet, apply a second, finish coat in a continuous series of light layers until the desired coating thickness is acquired. Apply this layer in a direction perpendicular to the pre-coat.
3. On porous substrates such as marble, you may need to apply several coats. Apply each coat while the previous coat is still wet.
4. Immediately after coating, lean each item against a wall or other prop, so it is in an almost vertical position for 15-30 minutes. This will allow the coating to even-out.

Step 5: Cure the Substrate

Note: Curing times and temperatures vary for each substrate, based on the properties and thickness of that product.

1. Place coated items into a cool oven. Do not preheat the oven. This is important. While the oven warms up, the product has time to “flash”. This helps reduce bubbles and allows the coating to flow more evenly across the surface.
2. Adjust oven to **Bake at 275° F**.
3. **Metal** will cure in about **20 minutes**.
4. Thicker or less conductive materials such as **ceramic** will take **25-30 minutes** to cure.
5. *Carefully* remove product from oven. Do not touch the surface while it is still hot! The coating is susceptible to scuffing while the product is hot. Let products cool completely before pressing.

Step 6: Press the Substrate

Average pressing temperature for most substrates is 400° F, but pressing time and temperature will vary with each substrate, press, ink, paper, etc.

Tips & Troubleshooting

- If paper sticks during pressing you may not have cured the product long enough. Put unprinted items back into the oven and re-cure them in 10-minute increments before trying to press any further.
- If the product yellows, you may have cured it too long, or the oven may have been too hot. First, check to make sure your oven was set to only **275° F**.
 - If your oven temperature was too high, turn it off and allow it to cool down a bit. Place a new batch into the cooler oven. Then turn the oven to **Bake at 275° F**, no higher.
 - If your oven temperature was set at the correct **275° F**, turn it off and allow it to cool down. Place a new batch into the cooler oven. Then turn the oven to back to **Bake at 275° F**, but reduce your time by 5 minutes.
- If your oven is located at a high altitude, remember to make the appropriate adjustments for heat and time.

Customer Support

For support on these or any of our products, please call our toll-free number for assistance: **877.795.1500**. You may also write to us at Support@LaserReproductions.com.