

UV RESIN INSTRUCTION SHEET

UV Resin is a transparent resin gel which hardens when exposed to Ultraviolet rays. No mixing is required (except for the addition of UV Resin colorants) and it cures in as little as 1 minute with no colorant added, using the UV light shown. Unlike 2-part epoxy resins, this UV curing resin requires no long setup times prior to hardening, and you only use the amount you need. This prevents waste. UV Resin gives a very clean, transparent look.

Before you begin make sure that you use the proper tools. Failure to use a high watt UV light or a semi-transparent mold will give you inconsistent results.

* **UV Light** In order to make UV Resin cure properly, we recommend using a 36W or higher ultraviolet lamp. UV lamps less than 16W is not recommended.



* **Silicone Mold** High light transmittance mold must be selected. Do not use any colored mold because it will not allow the UV light to penetrate the resin completely.

High light transmittance mold



Color silicone mold



- ✌ Select the silicone mold you would like to use, clean it with thoroughly to remove any dirt or oil.
- ✌ Mix any UV pigments you are using with the UV Resin. One technique is to add a very small amount of pigment to the UV Resin – the color is very concentrated. Another technique is to place a small amount of resin and a drop of pigment on a saucer. Use a toothpick to draw tiny amounts of color over to the resin and mix until you reach the desired color.
Do not use too much pigment or the UV resin may not cure properly.

✌ Work carefully to avoid creating bubbles. If bubbles appear, heat the surface of the gel before curing. To do this, you can use a stick lighter (like you would use to light a grill) and pass the flame over the surface of the Gel Resin. The bubbles will come to the top and burst. Working with the Gel warmed slightly may help alleviate the bubbles.

✌ Set your piece under the UV lamp. The cure time is longer for UV Resin which contain pigments. When you mix the UV Resin with UV pigment, the rule of thumb is **"the darker the color, the longer it takes to be cured"**.

🕒 Instructions on UV lamp exposure time:

🕒 Less than 3 inches in size and 0.1 inches in thickness. Front lighting for 2 minutes.

🕒 3-4 inch in size and 0.1-0.3 inches in thickness. Front lighting for 2 minutes, reverse mold, back lighting for 2 minutes.

🕒 More than 4 inch mold - This needs to be a layered operation. First, inject a small amount of UV resin about 0.05 inch and then cure in the UV light for 30 seconds. Continue adding more UV Resin to the top of the hardened Resin and cure using the UV lamp. Repeat the process until you have the desired volume. If your work is colored, the lighting time needs to be extended

about 1 minute.

✌️ UV resin will generate heat while curing in the UV lamp. Your piece may retain heat after the curing process. If you make something larger (larger than the size of your thumb), it may smoke a little. It's normal, don't worry. At the end of the light curing cycle, your work will still be very hot. Cured resin will have a tacky surface even though the resin has hardened. Please do not touch the surface (including gloves) directly with your hands, or you will leave your clear fingerprints. Please wait for cooling. The surface of the work will no longer be sticky to the hand and can be demoulded.

UV RESIN FREQUENTLY ASKED QUESTIONS

Q1: Why does UV resin have a pungent smell? How do you eliminate the smell of UV resin?

A1: This is the odor of the main raw material of UV resin, which cannot be eliminated. We use non-toxic raw materials, which smell better than similar products. Don't worry, the smell will disappear after the resin solidifies. While using, please wear masks, gloves and goggles, good protection is necessary.

Q2 : I made a key pendant with UV resin. After demolding, it still sticks to my hand. What should I do?

A2: First, light the front with an ultraviolet lamp, turn it over and shine on the back of the mold for 2-3 minutes. If you add a resin pigment, it takes longer. The thickness of the mold and the colorant can affect the resin solidification.

Q3: What is the reason why the surface of something I make is always opaque?

A3: Cured resin will have a tacky surface even though the resin has hardened. Please do not touch the surface (including with gloves) directly with your hands, or you will leave your clear fingerprints. Please wait for cooling, the surface of the work will no longer stick to the hand and can be demoulded.

Q4: Can UV resin cure in outdoor sunlight?

A4: Yes. UV resin can cure in the sun. It cures faster when there is plenty of sunshine. An ordinary size pendant will cure in about half an hour. If you use UV resin outdoors, please keep out of the sun during operation.

Q5 :How do I remove the stickiness that is left after the Gel Resin has cured?

A5: After curing the final layer, remove stickiness with UV Resin Cleanser and a paper towel, napkin, or tissue. You can also clean the inside of the UV Lamp unit with the UV Resin Cleanser if it should get sticky.

Q6: Can UV resin resin be polished? Can I punch a hole for a pendant?

A6: Always use water when sanding resins. You can get a shine after polishing with wet sanding pads #400~2000 or the Polishing Papers 4 sheet combination, beginning with the 400 and going up to the 4,000 (Item R-024). Then apply Wenol Polish for a final finish. If you polish long enough, your piece will become crystal clear.

If you have any questions regarding our UV resin product please contact with us.

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