

SprintRay Die & Model 2 Tan



Die & Model 2 Tan retains its incredible accuracy but now with reduced odor and pigment settling, making it even easier to work with.

When it comes to 3D printing dental models of any kind, our number one priority is to ensure a comfortable, intuitive user experience. Die & Model 2 features a drastically reduced odor, so your office staff can confidently utilize the printer in whatever space you may have. Additionally, the effect of pigment settling has been drastically reduced, meaning that your resin requires far less stirring before every use, especially when being left overnight.

Handling SprintRay Resin

Resin is non-toxic in both liquid and solid form. But it is classified as a sensitizer, which means that exposure over time can cause your body to have a mild allergic reaction. Here's how to handle resin safely.

Always wear gloves

Always wear gloves when handling uncured resin. Whether you're pouring, removing models from the platform, or even after models have been washed, gloves must be worn in order to limit exposure.

Mix thoroughly

3D printing resins contain chemicals of different weights, therefore it is essential to thoroughly mix resin before every print. For resin already in the tank, use provided resin wiper to gently stir the material. If pouring from a bottle, shake the bottle vigorously for several minutes before dispensing.

Filter resin

When pouring resin from your tank or other vessel back into the bottle, always pour through a fine mesh filter. This will trap partially-cured debris and prevent contamination of the rest of your bottle, prolonging the life of your materials.

Watch expiration dates

Resin has a shelf life; it's important to keep an eye on the expiration date. Use of expired resin will likely result in failed prints, as the compounds required for curing break down and will not activate properly. The expiration date for SprintRay resins is printed on the back of the bottle.

Dispose of properly

Liquid resin should be cured before being disposed of. Pour liquid resin into a clear container and set it in direct sunlight. Once it has cured, it can be treated as waste and disposed of in the regular trash.

Washing SprintRay Resin

After your parts have printed successfully, they must be removed from the platform and washed before being post-cured. This step is essential to producing accurate, strong parts.

Isopropyl Alcohol (IPA)

We recommend washing your parts in IPA with a concentration of 96% or higher. Make sure that your wash station is in a well-ventilated area in order to avoid unintentional inhalation and dizziness. When using IPA, always wear gloves.

Remember: IPA is extremely flammable! Keep it away from heat sources, sparks, and flames.

Rinsing Printed Parts

After your completed parts have been removed from the build platform, they should be rinsed in IPA to remove excess uncured resin. Dunk your models into IPA a few times to ensure good coverage. Do not leave your models sitting in IPA during this step, as overexposure can compromise the strength of your parts.

Ultrasonic Bath

After your parts have been rinsed thoroughly, transfer them to an ultrasonic cleaner filled with clean IPA. Run the cleaner for 3-5 minutes with the occlusal side of the part facing down. Do not leave your parts in the ultrasonic cleaner for more than 5 minutes, as this could compromise their strength.

Drying

If your parts have been sufficiently washed, the surface will no longer be sticky to the touch and should appear visually uniform with no oily sheen. Use forced air to dry your parts rapidly. Once dry, double check for smatterings of uncured resin. If found, rinse again in IPA and dry.

Post Curing SprintRay Resin

Using Pro Cure

Once your washed parts have been fully dried, they need to be properly post-cured to maximize strength and to comply with FDA standards. When using SprintRay Pro Cure, simply find the correct material on the touchscreen and begin the curing process. Pro Cure is preprogrammed with the correct temperature and time profiles for most popular resins.

Using 3rd-Party Curing Unit

If using a cure box other than SprintRay Pro Cure, leave parts in for 15-30 minutes depending on the light power of your curing box.