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Quick Guide Liqcreate® Resins

This Quick Guide provides useful information to quickly set you up to print with Liqcreate resins. We advise to read the full User's Guides and Safety Data Sheet when you are a new user. These documents are available on www.liqcreate.com/support/technicaldocuments. This document shortly describes handling of the materials, safety and parameters for several 3D-printers.

Print preparation

Shake the bottle for at least 2 minutes before use. After shaking leave the resin to rest for 10 minutes to let air bubbles out. The resin can be poured back into the bottle after use. Always use protective measurements like nitrile gloves when handling Liqcreate resins. Extended safety instructions can be found in the Safety Data Sheet.

Build parameters

Liqcreate photopolymer are designed for SLA and DLP technologies in the range of 385 to 405nm. Several 3D-printers have pre-defined settings. If your 3D-printer is not in this list, please contact our experts at info@liqcreate.com.

Miicraft

Download and import the print parameter file from www.liqcreate.com/support/technicaldocuments/ to use Liqcreate resins on the Miicraft 125y 3D-printer. Set the LED current to 3,5A and print with the imported 50 and 100 micron layer thickness parameters.

Form2

Set your machine in "Open Mode" and use the following settings to print
Liqcreate Clear Impact:

- Clear V3 25;50 or 100 micron

Liqcreate Deep Blue, Stone Coal Black, Hazard Glow and Strong-X:

- Grey V3 25;50 or 100 micron

**100 micron is preferred*

Post-processing

Post-processing is advised to get the optimal properties out of your prints. This includes rinsing 5 minutes in IPA or (Bio) Ethanol, preferably ultrasonic or under agitation. Make sure the parts are dry before post-curing, this could be done by placing the parts in a well ventilated area for at least 30 minutes or use pressurized air for 2 minutes. The last step includes curing in a high-power UV curing chamber for 20 minutes at 65 degrees Celsius. Preferred wavelength of the curing unit should be between 300-410nm.

Safety

Liqcreate liquids and green parts should always be handled with care. Using the advised personal protective equipment (PPE). Inform the Safety Data Sheets for more information.