

UV Curing Oven

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| APM LED UV-Cube |
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| Tool Type: UV Curing Oven |
| Location: Elings 2436 |
| Manufacturer: APM |
| Principal Scientist |
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About

The UV curing oven is located in Elings Hall 2436.

Some Carbon Resins used in the Form 2 3D printer can benefit from post process curing. Each resin has a specific hardening curve which can be found within the reference material which will indicate the ideal time and temperature to be set on the APM UV curing oven.

Detailed Specifications

LED source: 365 nm

| Tray Position | Power Setting |
|---------------|-----------------------|
| top | 32 mW/cm ² |
| middle | 17 mW/cm ² |
| bottom | 12 mW/cm ² |

Safety Concerns

- * Allow at least half an hour for IPA to evaporate before placing part in Form Cure
- * Allow time for the Form Cure to cool off before removing parts
- * Do not operate form cure with lid open

Operating Procedures

1. Any part to be cured needs to be washed in the FormWash with IPA BEFORE being placed in the form cure.

2. Supports can be removed before or after curing process.
 3. Wait 30 minutes after washing to allow all remaining IPA to evaporate
 4. Check the reference material for selected resin to determine ideal time and temperature for curing
 5. Use the dial on the front of the FormCure to set time and temperature
 6. Place part within the FormCure→ press start.
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Reference Documentation

APM LED UV-Cube II User Manual

From:

<https://bpm-wiki.cnsi.ucsb.edu/dokuwiki/> - NSF BioPACIFIC MIP Wiki

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Last update: **2024/10/10 17:07**

