Setting Up Your VITA VACUMAT® 6000 M for Obsidian® Lithium Silicate Ceramic
Please note: Only use standard honeycomb firing tray and a standard ceramic peg.

STEP 2 Turn Unit On

Wait until the v-Pad display is on. Create an Obsidian User tab.

STEP 3 Start Screen

Select/touch the (USER) tab.

STEP 4 User Screen

Select/touch the (tools) tab.

A dialog box appears; select/touch the open box to name your user profile.

User screen becomes activated with “yellow” buttons. Select/touch the (new) tab.

Type in the user name (max. 12 characters); Obsidian. When complete, select/touch icon.
STEP 5  Choose Color

After you have named your User tab:

a. Select/touch a color to use:

b. Select/touch the (OK) icon to complete

**OPTIONAL:** If desired, you can select a background color for your Obsidian tabs:

a. If default color is fine, select/touch the (no) icon.

b. If another color is desired, select the .bmp tab and select/touch the (save) icon

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STEP 6  Select the (Back-Arrow) Icon

You have created a User tab with “Obsidian” as the name.

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STEP 7  Create an Obsidian Material Tab

Select/touch the Obsidian tab.

Within theObsidian tab will be numerous default material choices. After selecting the Obsidian User tab, a screen with several material choices (tabs) will appear.
a. Select/touch the (tool) icon.

Material tab screen becomes activated with “yellow” buttons. Select/touch the (new) tab.

A dialog box appears; select/touch the open box to name your material.

Type in the material name (max. 12 characters); ObsidCrystal. When complete, select/touch the (OK) icon.
After you have named your material:

a. Select/touch desired color icon.

b. Select the dual-stage firing cycle icon (second from right).

c. When complete, select/touch the (OK) icon to complete.

You have just created a material tab that will soon contain all of your firing cycles you use for/with Obsidian.

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**STEP 8** Obsidian Crystallization Firing Cycle

Create Obsidian crystallization firing cycle within your Material tab.

Select/touch the Obsidian Material tab you just created.

The screen now displays a series of tabs. Select/touch the (tool) tab.
The tabs are now highlighted in yellow. Select/touch the (new) icon to display the program name dialog box.

Select/touch the open box to name your material. Type in the cycle name (max. 20 characters); Crystal 18 min. When complete, select/touch the (OK) icon.

Select/touch the tab with the name you just created.

A default firing cycle appears. Select/touch each step to enter the firing cycle provided to you by the material manufacturer.

Note about the Vacumat 6000 M: The preceding furnace parameters are to be used for crystallizing milled Obsidian restorations. If the Obsidian crown appears “over-glazed” or “too glossy,” please recalibrate your Vacumat furnace. If the problem continues, please lower the final firing temperature by 5 °C increments as recommended in the Obsidian Milling Blocks User Manual, which can be found at www.obsidianceramic.com/resources. Because each user’s Vacumat furnace performance is unique, the user might find their final hold temperature range to be slightly lower than the recommended 820 °C (i.e., between 810–820 °C).
Change the pre-dry temperature and pre-dry time by selecting/touching tab.

Using the keypad, select and enter:

a. Pre-drying temperature: 400 °C
b. Pre-drying time: 3 minutes.

When complete, select/touch the (OK) tab.

Change the “lift” position pre-dry temperature and pre-dry time by selecting/touching the tab.

Using the keypad, select and enter:

Time c: 1:00 min Value c: 90%
Time b: 1:00 min Value b: 60%
Time a: 1:00 min Value a: 30%

When complete, select/touch the (OK) tab.
Change the “gradient” (temperature rise). **Note:** The “Rising time” will change automatically.

Using the keypad, select and enter:

Gradient: 90 °C/min  
**Note:** The “Rising time” will change automatically.

When complete, select/touch the (OK) tab.

Change the first-step “Firing temperature”/“Firing time.”

Using the keypad, select and enter:

a. Firing temperature: 780 °C  
b. Firing time: 0:10 seconds

When complete, select/touch the (OK) tab.
Change the second “gradient” (temperature rise). **Note:** Make sure the ✅ icon is checked.

Using the keypad, select and enter:
Gradient: 40 °C/min  
**Note:** The “Rising time” will change automatically.
When complete, select/touch the ✅ (OK) tab.

Change the second-step “Firing temperature” and “Firing time.” This will be the final high temperature and final hold time.

Using the keypad, select and enter:

a.  Firing temperature: 820 °C  
b.  Firing time: 10:00 minutes
When complete, select/touch the ✅ (OK) tab.
Change the “cooling temperature.”  **Note:** Make sure that the (Activate cool down) icon is checked.

Using the keypad, select and enter:
Cooling temperature: 680 °C  
**Note:** Make sure that the “Activate cool down” icon is checked. 
When complete, select/touch the (OK) tab.

Change the cool down lift position.

Using the keypad, select and enter:
Lift position: 100%  
When complete, select/touch the (OK) tab.
Check and change the vacuum, time, and start temperature values (second stage values).

Using the keypad, select and enter the vacuum value and the start temperature:
- Vacuum value: 100%
- Main vacuum time: 1:00 minute (see display)
- Start temperature: 780 °C
- When complete, select/touch the (OK) tab.

Check and change the vacuum, time, and start temperature values (first stage values).

Using the keypad, select and enter the vacuum value:
- Vacuum value: 100%
- Verify display values shown below:
- Main vacuum time: 4:23 minutes (see display)
- Start temperature: 400˚C
- When complete, select/touch the (OK) tab.
STEP 8 cont’d

For the Obsidian crystallization cycle, the “Pre-vacuum” tab is disregarded.

![Obsidian crystallization cycle image]

After completing the firing cycle entry, make sure that you select/touch the (save) icon to save your changes.

![Firing cycle entry image]

You have completed your programming! Your final firing cycle should look like the above image.

STEP 9

Change the lift speed, offset and standby temperature settings:

Select the (furnace settings) icon to display the options menu.

![Furnace settings image]
Select/touch the (settings) icon. This displays the furnace settings dialog box.

Use the (left/right arrows) to change:

a. Lift speed: minimum/none.
b. Temperature offset: 25.

Standby temperature
STEP 9 cont’d

Select/touch the open box of the “Standby temperature” to change the “Standby temperature” to 400°C.

When complete, select/touch the (OK) tab.

STEP 10

**OPTIONAL:** If desired, you can delete unwanted material icons from your Obsidian folder. Select/touch the (Users tab) and select/touch your Obsidian icon.

Select/touch the (tools) icon to bring up the edit screen.
a. Select/touch the material icon (to highlight) if you wish to delete.
b. Select/touch the (trash) icon.
c. Confirm your material icon deletion by selecting/touching the (OK) icon to permanently delete the material icon.

After deleting unwanted material icons, select/touch the (back-arrow) icon. This completes the removal process.

**OPTIONAL:** If needed, you can add additional cycles to your Obsidian materials folder by following steps 8–10.