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PART 4: CURE OBJECT

STEP BY STEP INSTRUCTIONS: CURING OBJECT

FRISCO PUBLIC LIBRARY February 1, 2024

Cure Object

Typical Total Time to Cure Object: 45 minutes

1	Objects must be fully washed and dried before curing.	Post-curing parts with additional UV light and heat strengthens the polymer structure, improving strength, stiffness, and temperature resistance.	<u>{</u> }}
2	Open Form Cure hood.	Open carefully. The hood is heavy enough it will tip the unit if left to fall to a rest when opening.	
3	Place objects into Form Cure. Space parts evenly to allow light and heat to reach all areas of the objects.		

4	Conthusians hand	Use caution when	
4	Gently close hood.		
		closing hood.	
		The hood is heavy	
		enough to tip unit.	
5	Set time and temperature for curing.	Black v4 Resin:	
		30 minutes	
	1. <i>Turn</i> dial to highlight time/temperature.	60 degrees Celsius	
	2. <u>Push</u> dial to select time/temperature.	White v4 Resin:	
		30 minutes	
		60 degrees Celsius	
			Stat
		Clear v4 Resin:	ET CONTRACTOR
		15 minutes	
		60 degrees Celsius	
6	Start Curing	The unit will begin	
	• Turn dial to highlight Start	to warm up. When	
	<u>Push</u> dial to select Start	it reaches	
		temperature, the	
		curing cycle will	
		begin.	
		Ŭ	
			Start
			30 min
L	1		

7	Lights and heater automatically turn off at end of curing cycle.	When the curing cycle has concluded, the lights will turn off and the unit will appear dark.	
8	Open hood of Form Cure.	Use caution when closing hood.	
9	Remove objects from Form Cure.	The objects are ready to be removed from the Form Cure unit. In the next steps you can remove supports.	

10	Optional: Remove supports and clean up object at home.	At this point you are welcome to take your object home to perform the necessary post processing with your own tools.	
11	 Before removing supports, put on safety equipment: Eye protection Gloves Dust mask (during sanding) 	Some methods of support removal may cause small pieces of supports to break away. Beware of flying debris. Wear safety glasses and gloves.	

12	 Remove Supports. Use the flush cutters to carefully cut the supports attached to the object. You may also find a hobby knife, tweezers, and bent pliers helpful to remove supports at home. The library has a few tools for removing supports at the library including: Snips Tweezers 	Some methods of support removal may cause small pieces of supports to break away unexpectedly. Beware of flying debris. Wear safety glasses and gloves to protect the skin and eyes. Tools for in-library use located in labeled drawer.	<image/>
13	Dry Sanding as Needed at Home After removing supports, remove support marks by dry sanding or wet sanding. Depending on the object's application and desired finish, further post-processing steps may include priming and painting prints. The library does not provide sanding supplies.	Begin with the lowest or roughest grit sandpaper and sand surfaces as desired. Consider using a sequence of 150, 220, 400, 800, 1000, and 2000 grit sandpapers.	

14	Wet Sanding as Needed at Home Wet sanding reduces dust and creates a finer surface finish. The library does not provide wet sanding supplies.	Use mineral oil or water to wet sand printed parts. Wear gloves to keep dust and sanding liquid off your hands.	
15	Additional Post-Process Tips at Home: https://support.formlabs.com/s/article/Removing- Support-Marks	This article reviews some tips for additional methods to clean up the appearance of your object	
16	 Clean Up Clean tools Return tools to labeled storage Return resin cartridge bottle to labeled cabinet Return resin tank to labeled cabinet Wipe down work areas Tidy workspace 	Additional cleaning supplies are located in lower cabinet near sink.	Workspace Standard
17	 See staff to return access key. Staff will: Check all tools are present and stored correctly Check workspace is clean and tidy Check-in access key 	Failing to return keys can result in additional fees on your library card account.	