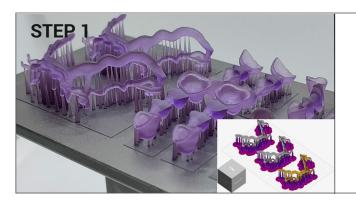


**Castable Resin Workflow** 

User Guide



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#### 3D Print the pattern

Select the 3D Model .stl file Set up suitable setting printer parameters Add proper support structure keeping keeping intaglio free of supports 3D print the part

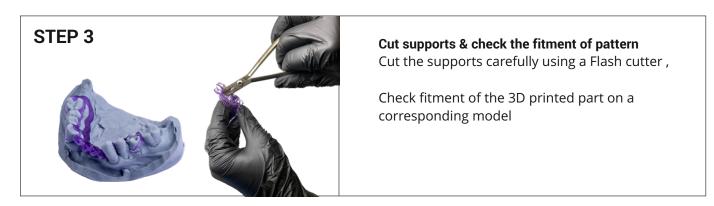


#### Wash the print with IPA

Wash the printed part in a Tornado type cleaner filled with IPA (96%) for 3 minutes without removing the Build plate.

- 1.5 minutes 1st wash
- 1.5 minutes 2nd wash for extra cleaning

Tip: Both wash chambers to be filled with IPA (96%)



STEP 4		<b>Post Cure</b> Put the printed part in a glass beaker / Glass pot filled
		with glycerol (50%) +water (50%) and post cure in a curing chamber. This allows the oxygen inhibited layer
		to cure.Set curing time based on machine power
		1. 30-50 watt- Cure for 20 mins
		2. 60-80 watt -Cure for 10 mins
	CURIE	3. >100 watt- Cure for 3-5 mins
		*Curing under nitrogen or vacuum will improve results

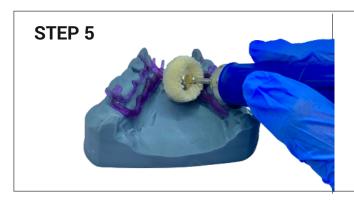


# **Castable Resin Workflow**

**User Guide** 



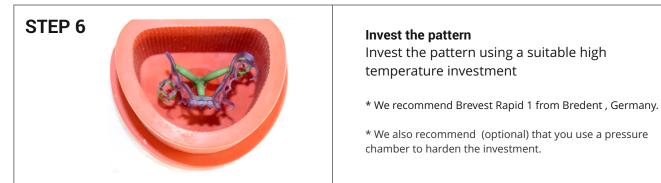
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#### Finishing & removing support marks

Re-Check the fitment of print on a corresponding model.

Polish the part with a rotary tool / Brush , applying light to moderate pressure and remove support marks





#### **Burnout Cycle**

The burnout cycle that we recommend is 925<sup>o</sup>C with 35 mins of holding. We also recommend (optional) that you use a pressure chamber to harden the investment.

Use a high quality burnout (ventilated) furnace like Nabertherm orRenfert.



#### Proceed to Casting

For Casting, preferably use a high -end induction casting machine .

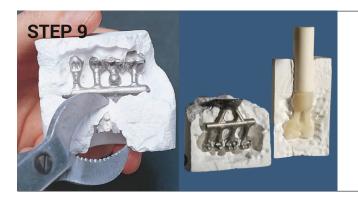


Castable Resin Workflow

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# **Remove form Investment (Divestment)** Remove investment material after casting, using standard divesting techniques.



**Sandblasting** Sandblast the part using standard standard techniques



## Check the final fitment of casting

Check the fitment of cast part on model . Check for detail

If fitment is perfect and all details are reproduced well, then proceed for polishing and finishing.



## Separate the part and Polish

Separate the part from the sprues and polish using standard techniques. Check once again the fitment on the model.

Cast part is ready to ship