



Spoon holder

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Summary

Just a simple spoon holder.

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Just a simple spoon holder. It has multiple sized slots to accommodate a variety of spoons and spatulas.

I printed this on an Ender 3 S1 using:

- .6 nozzle (I'm sure a .4 would work fine)
- .2 layer height
- 20% infill using gyroid
 - By using gyroid, I can fill it with plaster after printing (see plaster details below)
- I added rubber feet to the bottom when finished to help keep it from sliding on the counter

Plaster injection Process

First, the obligatory safety disclaimer: In my opinion, this is not a difficult or unsafe process and it doesn't take much time. I have found that it's an easy way to add some weight to my prints.

That being said, do this at your own risk - be careful and do your research about how plaster works.

I start by drilling two small holes (just a little bit bigger than the tip of the injector) into the bottom of the model, spaced apart and at a place on the model where the void is thickest.

I use this meat injector syringe: <https://www.amazon.com/Meat-Injector-Syringe-Marinade-Seasoning/dp/B08R6ZRXCW>

I cut the tip with a hacksaw (and sanded it to remove sharp edges) so it's just basically an injector with a 1-2 mm metal tube for a point.

I use plaster of paris: <https://www.amazon.com/10308-4-Pound-Interior-Plaster-Paris/dp/B000BQLT0S>

I mix the plaster with water until it's a thick soup (more like a gravy). Hint (lessons learned):

Using the syringe, I slowly inject the plaster into one of the holes (the other allows for the air to escape). It helps to hold the model in a position where gravity can help encourage the plaster to flow into empty areas. If needed, I'll shake/vibrate the model between injections to get the plaster to move inside the model.

I've sacrificed some rice that I keep in an old cool-whip bowl to set the model in (holes-side-up) to let the plaster dry (typically 7-8 hrs). After dry, I'll either cover the holes with rubber or TPU-printed feet... or inject them with some hot glue just to seal them up.

Model files

spooooon-holder.stl

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