

Personal Protective Equipment for Resin Printing

Most UV resins do NOT "dry" even if left out long term; they require UV to cure. That drop that splashed behind a table will still be wet the next time a ball rolls behind the same table.

This is the stuff that keeps me and everyone else safe.

Gloves

- Disposable Nitrile gloves are extremely convenient
 - Always New, Always clean
 - Seems wasteful if using them often (maybe 4-5 pairs for a single print)



- Re-Usable Nitrile gloves can be a good choice for higher volumes
 - Washable in the same solvent being used for the prints
 - Much less convenient, but more cost effective



Towels

- Disposable Select-A-Size style Paper Towels
 - These are half length paper towels that I tear in half or thirds, for smaller wipes on smaller drops and spills

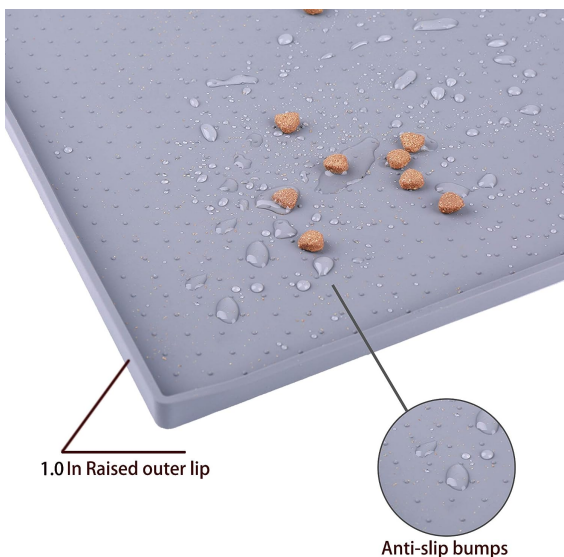


- Kimtech Science Wipes
 - Completely lint free, these are awesome for wiping the glass and FEP/Non-FEP print surfaces



Silicone Dog Food Mats

- These can be a cost effective way to protect work surfaces
 - Best thing ever for resin, use UV light to cure any spilled resin then peel it off the silicone mat into the trash can
- Textured bottom is better for items that should be able to slide; smooth silicone can often feel sticky
- Mats containing a significant lip along the edges are desirable, just to ensure no resin runs off onto the floor
- I have one that covers my entire surface (32"x24"), one on top for just the printer (24"x16"), one on top for the bottle stand/funnel/filter (24"x16"), and extras to lay out elsewhere as needed (19"x12")



Plastic Drop Cloth

- Very cheap insurance when using resin in a home

- Resin + LivingThings = BAD
- Stretching out a drop cloth over the whole path from work area to outside takes maybe 30 seconds
 - Rolling it back up and stuffing it in a bag takes closer to a minute
- Most affordable plastic sheet material is acceptable, but 3 mill thickness is recommended for repeated use
 - I reuse mine until a spill is found, then it goes outside to cure and ultimately to the trash
 - Sharp edges on bits of hardened resin can poke holes in any drop cloth, and holes are also bad
- Cleaning a soiled drop cloth is not recommended
 - Too much risk; if there is residue left on the top and it gets rolled up, worst case it gets put out upside down next use... now the residue is on the floor



Revision #5

Created 17 August 2023 23:59:40 by smokintbird

Updated 14 September 2023 19:20:51 by smokintbird