

Mixing Resin Solutions

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Introduction

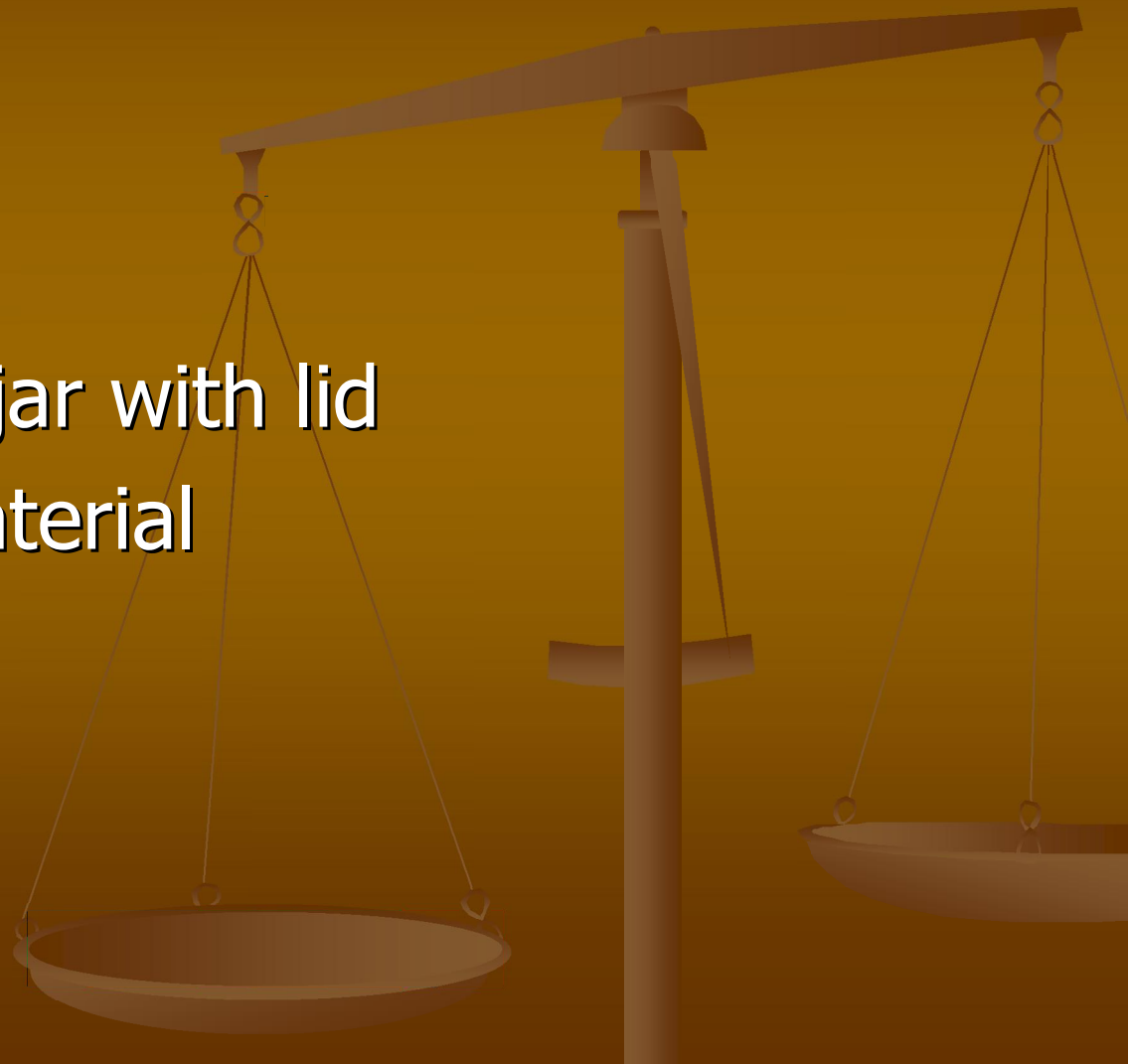
- These are step-by-step illustrated instructions for mixing resin solutions. The instructions are applicable to most resin / solvent combinations. We will be using the example of a 10% w/v solution of Acryloid B-72 in acetone.
- Follow these steps to avoid slow-dissolving clumpy masses of resin stuck the bottom of your glassware.

Concepts

- Just to clarify a few details:
- 10% w/v solution means: You will be adding an amount of solid resin measured by weight (w) to an amount of solvent measured by volume (v). In this case, we will be weighing out 50 grams of resin, and making up a total solution of 500 milliliters.
- You do NOT add 50 grams resin to 500 mL of solvent – that makes a solution greater than 500mL total, and your % content is below 10%.

Materials

- Resin
- Solvent
- Balance (scale)
- Wide-mouthed jar with lid
- Net or mesh material



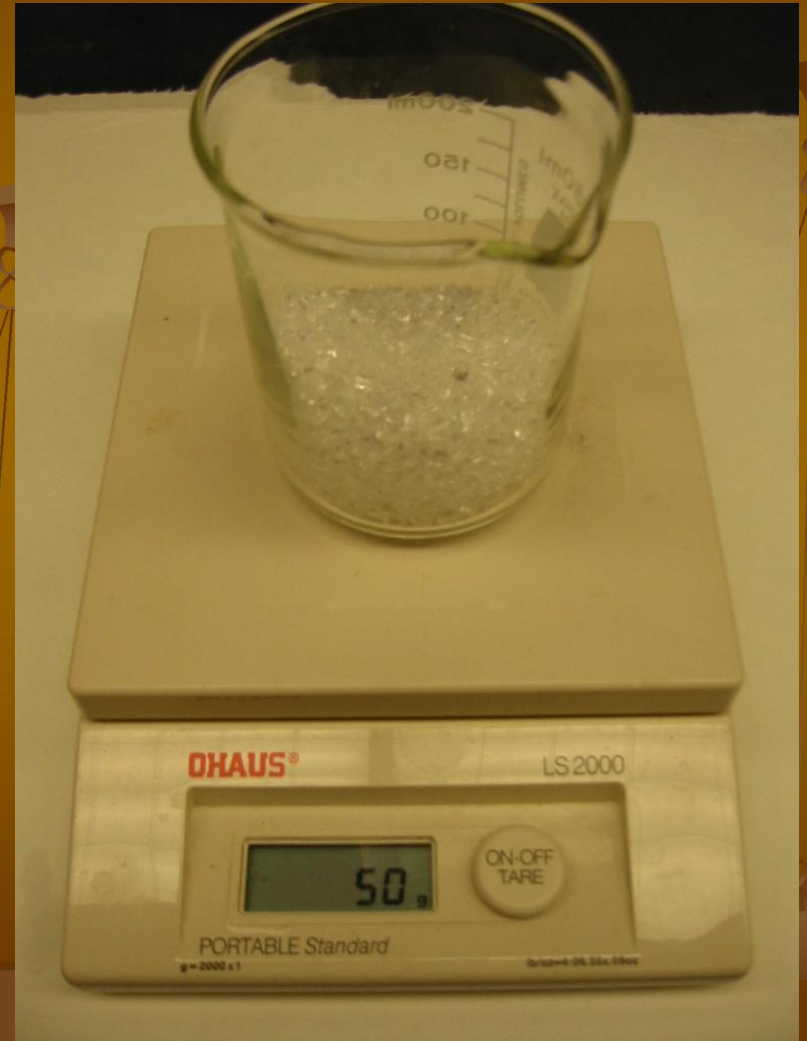
Step 1

- Take a clean, wide-mouthed jar and mark on the side where your total volume level will be (in this case, 500mL).
- (You can use water to find the level)



Step 2

- Weigh out your resin (in this case, 10% of 500mL is 50 grams).



Step 3

- Gather the resin into a small bag made of a fine mesh, non-soluble, material.



Step 4

- Fill your jar half-full of solvent, and lower the bag of resin in until it is partially immersed in the solvent.
- The resin will dissolve gradually into the solvent, settling into the solution evenly.



Step 5

- When the resin is completely dissolved, remove the bag, and add more solvent up to the “full” line.
- If you’re adding anything else like pigments, do it before you add the final solvent.



Step 6

- Label it!
- And you're done.

