Since I published the design of my sprayer:

Paint Sprayer

Making the Gun: In Metal Web News, see
http://www.metalwebnews.com/howto/paint/paint.html

I have made it even handier for the occasional user by replacing the glass jars with re-cycled tin cans. I found that the paint was deteriorating if stored in the jars as I originally intended.

I replaced the jar lid with a machined piece of UHMW polyethylene stepped to fit two sizes of tin cans. After a paint job the unused paint can be returned to the original container and the cans can be tossed thus saving both solvent and cleanup time. The modified unit can be seen in the photo.

Nozzle: In addition to the original 0.038" bore nozzle, I have added three more to the repertoire. A 0.055" (#54 drill) one for heavy paints that should not be thinned (such as melamine) and two finer ones of 0.018" (#77 drill) and 0.026" (#71 drill) for fine work with thin paints. All work well and have their place but the original one is still the most used. The additional nozzles are identical in construction except for the size of the paint exit hole. No change to the air nozzle was required.

Filtering paint: Any paint sprayer is very susceptible to clogging from bits of dried paint in the material. Of all the various things I've tried for filtering, the cheapest, quickest and most effective is a tin can receptacle, lid and filter material cut from discarded panty hose. Other materials I have tried have been either painfully slow or ineffective. The lid is simply a plastic lid that fits the can with the center cut out.

Most women are happy to supply the necessary filter material. See photo.

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