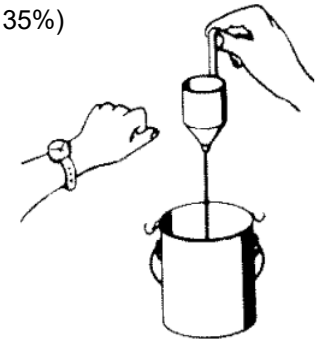
Fluid set selection

Nozzle sets range in size to provide different fluid flow rates. For low flow rates or light viscosity fluid, select the smaller nozzle sizes. For high flow rates or high viscosity fluid, select the larger nozzle sizes.

For the best atomization, use the fluid nozzle that will give the required flow with the needle fully triggered (a partially open needle may cause an uneven spray pattern).

Measuring paint viscosity

1. Thin paint according to paint can instructions. Be certain to use a thinner which is compatible with paint used. If no thinning instructions are given, a general rule of thumb is 5 to 15% thinners. (fine finish up to 35%)



2. Stir paint completely and strain.

3. Use the viscosity cup to measure paint as follows:

a) Submerge the **Lemmer Ford #4 Viscosity cup** in the paint.

b) Lift the cup out of the paint and begin timing.

c) Stop timing when the steady paint stream is first broken.

d) The time recorded is the paint's viscosity.

4. Now read the nozzle chart and choose the nozzle which lists the viscosity range (under "type of material") your material falls into.

Note: This nozzle chart has been made as accurately as possible. Not all paints will exactly comply due to paint ingredient variations. However, this chart is an excellent starting point for learning the basics of spray painting.

Nozzle Size	Time With Ford cup	Materials used
.5 mm.	10 - 17 sec	Ultra fine finish work with stains,dyes, ink, automotive touch up,spot jobs.
.7 mm.	14 - 20 sec	Fine finish work with all automotive finishes - color matching automotive base coat.
1.0 mm.	16 - 22 sec	Fine finish work with stains,lacquers, urethanes, enamels,automotive base/clear coats.
1.2 mm.	19 - 26 sec	Medium speed application acrylic lacquers & enamels -. urethanes, clear coats.
1.4 mm.	19 -32 sec	Normal output with lacquer & enamels, urethanes, varnish, zinc chromate,automotive primers.(also thinned latex & oil base).
1.6 mm.	21 - 32 sec	Hi-build primers, medium, speed industrial finishes.
1.8 mm.	24 - 36 sec	Higher speed industrial finishes.
2.0 mm.	26 - 38 sec	Heavy output with lacquer & enamels, butyrate & nitrate dope & epoxies.Latex and oil wall paints.
2.8 mm.	38+ sec	Wax base stripper. Sound deadeners.Latex paint.