UV PROCESS SUPPLY, INC.

VISCOSITY CUPS INSTRUCTION MANUAL

PART # N002-001/5

There are five orifice sizes in a complete set of UV Process Supply viscosity Cups. The recommended use range in seconds for each of the five cups is as follows:

Cup #1	40 to 60 Seconds	#N002-001
Cup #2	20 to 60 Seconds	#N002-002
Cup #3	12 to 60 Seconds	#N002-003
Cup #4	10 to 60 Seconds	#N002-004
Cup #5	10 to 60 Seconds	#N002-005

Cup #1 This cup is used for very thin mixtures where low solids application is desired.

Cup #2 This is the most popular cup of the series and is used for most mixed paints which have been reduced with solvent for application, regardless of the application method. It has wide use in the automotive and similar industries.

Cups #3 & #4 These cups are used for higher solids application where extra heavy coatings are specified.

Cup #5 This cup is normally used for measuring the viscosity of paints prior to reduction with solvent.

NSTRUCTIONS FOR USE

1. Select the proper number cup to be used, which is dependent on the expected viscosity range of the material to be measured.

2. Insure that the cup is clean and that there is no residual dried material in or around the orifice.

3. Adjust the temperature, if necessary, of the test material.

4. Completely immerse the cup into the material to be measured in a location free from bubbles or foam, holding the cup vertically by means of the stainless steel split key ring.

5. Measure the temperature of the material that is encompassed by the cup.

6. Quickly withdraw the cup from the material and at the same time start the timing device.

7. Carefully observe the efflux stream and at the first distinct break in the stream, one to two inches below the base of the cup, stop the timing device.

8. Record the number of seconds of efflux time, temperature and the cup number. (Example: Viscosity Cup #2, 35.0 seconds at 25.1 ^{0}C.)

9. As an option to the preceding step, refer to the conversion table furnished with the cup and determine the centistoke viscosity for the measured effiux seconds and record this value and the measured temperature. (Example: 111.3 centistokes at 25. 1 ^{0}C.)

10. Promptly clean the cup unless it will be used immediately for a rerun of the same material.
    CAUTION: Avoid the use of objects or materials which would damage the orifice.

UV Process Supply, Inc.
1229 W. Cortland St.
Chicago, IL 60614-4805

773-248-0099 · 800-621-1296 · 888-UVLAMPS™
FAX 773-880-6647 · 800-99FAXUV™

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