

# Mixing 10% Formic Acid Ink For Sizing Tests

## From a Naphthol Green B Dye Pak and a 20% Formic Acid Pak

### AMOUNT:

The amount of ink to mix is up to the user. 10ml (10cc) of ink is needed for each sizing test. A batch of 10% Formic Acid ink will last for 2 weeks if it is kept sealed and cool, such as at comfortable room temperature, or in an air conditioned room, or refrigerated (not frozen).

Note: Let the ink return to sizing test laboratory room temperature before using it for sizing tests. Ink temperature has an effect on sizing tests times. Sizing test results will be false if the ink was just been removed from refrigeration and is still cold. Two (2) weeks after the ink is mixed, the remainder should be disposed of and not be used for sizing tests. For example, if 20 sizing tests will be done each week, enough ink for 40 sizing tests can be mixed and used for the next 2 weeks. That would be 400ml of ink. The amount mixed should be increased to allow for a few extra tests and for the inaccuracy of the dispenser – perhaps mix 500ml of ink. That will require 250ml of dye and 250ml of 20% formic acid. Smaller amounts can be mixed more often if preferred.

### SOURCE PAKS:

Use the following two paks from The Aderhold Firm Inc.:

TAF NGB1 Naphthol Green B Dye Solution Pak

TAF 20FA 20% Formic Acid Solution Pak

### PROCEDURE:

After determining the volume of ink to mix, put half of that volume of solution from the TAF NGB1 dye pak into a suitable measuring container. Pour that measured amount of dye solution into the storage container. Rinse the measuring container and shake out excess water. The remaining water must be a tiny fraction of the total ink volume being mixed. Then put exactly the same amount of 20% formic acid solution from the TAF 20FA pak into the same measuring container (or into a separate but identical measuring container). Pour this into the storage container which already has the dye solution in it. Cap the storage container and shake it to mix the ink thoroughly. The ink is ready to use. Rinse out the measuring container and store it so it will stay clean. Pour some or all of the mixed ink into the cleaned measuring dispenser bottle for use in sizing tests. At the end of the day, or conclusion of sizing tests, remove the tube and measuring cup assembly from the dispenser and pour the ink remaining in the dispenser bottle back into the storage container. Cap the storage container and store it in a cool place (room temperature or lower). Rinse out the dispenser bottle and its measuring cup assembly with water.