

PHOTOGRAPHERS' FORMULARY

FORMULARY GOLD TONER FOR THE PRINTING-OUT PROCESS (POP)

1-liter kit

These directions assume you are familiar with the POP process or have Formulary's directions for the process. This kit contains the chemicals for an addition liter of the alkaline gold toning bath contained in Formulary Printing-out Process (POP) Kit (Catalog number 07-0110).

CHEIMCALS CONTAINED IN THIS KIT

Your kit contains the following chemicals:

Chemical	Amount
Borax	8 grams
Gold chloride, 1% solution	16 ml

CHEMICAL SAFETY

All chemicals are dangerous and must be treated with respect. Please read the chemical warnings on each package.). **Consult with local sewer and water authorities regarding proper disposal of darkroom chemicals in your area**

One chemical in this kit need special attention: gold chloride.

Gold chloride is a caustic and can cause skin burns. In dilute solution, gold chloride will stain the skin purple. The stain is due to gold metal bonded to the protein of the skin and cannot be chemically removed. The only procedure for removing these spats is to let them wear off.

If you are concerned with finger stains, we strongly urge you to use rubber gloves, such as Playtex gloves, when working with solutions of gold chloride.

The user assumes all risks upon accepting these chemicals. **IF FOR ANY REASON YOU DO NOT WISH TO ASSUME ALL RISKS, PLEASE RETURN THE CHEMICALS WITHIN 30 DAYS FOR A FULL REFUND.**

MIXING THE SOLUTION

You will need a 1000 ml brown glass storage container and mixing bowl.

Chemical	Amount
Distilled water (38°C/100°F)	750 ml
Borax	8 g
Gold chloride, 1% solution	16 ml
Distilled water to make	1000 ml

Place the warm water in the mixing bowl and add the borax. Stir the solution to dissolve the solid. Add the entire contents in the gold chloride-solution vial. Add sufficient water to bring the final volume up to 1000 ml, stir the solution to ensure it is homogeneous, and then transfer it to the storage container.

TONING

An un-toned POP print, after fixing, will have a reddish- brown cast. It is a common, but optional, practice to tone the POP print prior to fixing to alter its tone. The print can also be toned after the final wash, if desired.

Trim the edges of the print to conserve the gold toner. Use the toning bath at 21°C/70°F. Immerse the print in the toning solution for 6 to 12 minutes. Unfortunately, it is difficult to judge the end result of the toning until the print is fixed, washed, and dried. You will have to experiment to gain experience. In general, the print develops a colder tone the longer it is in the toning bath and this cold tone increases upon fixing and drying.

The prints can be re-toned after the final water washes of the POP process, if desired. If you do re-tone, be sure to rewash the print thoroughly to remove the toning chemicals.

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