

# PHOTOGRAPHERS' FORMULARY INC.

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## LIQUIDOL LIQUID PAPER DEVELOPER

CATALOG NO.	TO MAKE WORKING SOLUTION
02-0200	5 Liters
02-0210	10 Liters
02-0215	20 Liters

### The New Paper Developer From Bill Troop and Ron Mowrey

Liquidol is a revolutionary new print developer that features exceptionally long shelf life, tray life, and high capacity, along with the convenience of a 1:9 liquid concentrate, thanks to the incorporation of a novel use of electron transfer technology not previously employed in print developers. This new technology lets us sustain the development process by using an activating and regenerative element which by itself would not have sufficient photographic activity. Taking this approach allows us more closely to approach the elusive goal of attaining consistent tone and contrast throughout the print run, making this developer especially valuable for consistent batch processing. It also provided the unanticipated benefit of slightly improved separation at both extremes of the tonal scale.

Fine printers will also appreciate that this developer has considerably more flexibility in over- and under-development than most print developers. This feature is limited when using the many papers which include incorporated developing agents. But when using papers which do not have incorporated developing agents, demanding printers will appreciate the extra dimension of flexibility and control this developer offers.

Liquidol has been carefully designed to replicate the appearance of prints developed in industry-standard Dektol®, yet to provide enhanced shadow separation. Other advantages are the convenience of a liquid concentrate that can be diluted 1:9, dramatically enhanced capacity, shelf and tray life, and full development within 60 seconds at 1:9 dilutions.

Stability was a paramount concern during the design of this developer. Because of its exceptional capacity and tray life, we consider this developer to be highly economical. We have also avoided the use of common chemicals such as ascorbates that, though eco-friendly, are apt to oxidize unpredictably, making them unsuitable for professional use. We have designed Liquidol to work well with a broad range of water supplies. However, for most consistent results use distilled water.

We invite users to experiment with different times and dilutions. We think you really will be surprised by the flexibility and dependability Liquidol offers.

Liquidol was designed in 2005 by Ron Mowrey and Bill Troop and released in 2007. It is available exclusively under the Photographers' Formulary label.

## FOR YOUR CHEMICAL SAFETY

All chemicals are dangerous and must be treated with respect. Please read all of the warning labels and chemical warnings on each package.

The only chemical in this formula that is considered "hazardous" by EPA is Hydroquinone. It is considered a skin sensitizer, and may cause eye and skin irritation. Please handle this liquid with gloves and splash goggles. If ingested or splashed in the eyes, contact a physician.

The user assumes all risks upon accepting these chemicals.

*IF FOR ANY REASON YOU DO NOT WANT TO ASSUME ALL RISK, PLEASE RETURN THE KIT WITHIN THIRTY (30) DAYS FOR A FULL REFUND.*

*Consult with local sewer and water authorities regarding proper disposal of darkroom chemicals in your area*

## MIXING THE WORKING SOLUTION

### FOR BEST RESULTS USE DISTILLED WATER

This kit contains 1 bottle of stock solution. To make the working solution, mix the stock solution and water in the ratio of 1:9 (if this is the dilution of water you are using for your desired activity and contrast). For example, to make 1000ml of working solution at 1:9 dilution uses 100 ml of stock and 900 ml of distilled water (temperature 20° C/68° F).

PAPER	DILUTION	TIME
Contact Papers	1:9	15 seconds - 1 minute
Ilford Multigrade	1:9	1 minute
Other Enlarging Papers	1:9	1 - 2 minutes

## LIFE OF THE WORKING SOLUTION

The working solution has a life of at least 2 working sessions (i.e. up to 32 hours or two eight-hour sessions plus overnight keeping) when using 1 liter of working solution in an 8x10 tray. The Stock Solutions kept in tightly sealed bottles, and in a cool place, should have a shelf-life of at least one year. The color of this developer may turn yellow with use. This is normal and does not indicate the developer is exhausted. A distinct red orange does indicate exhaustion.

## CAPACITY

More than 25 8x10 prints per liter of working solution can be expected depending on the type of paper used. In tests this developer has demonstrated over 2x the capacity of similar developers or over 2x the open tray life. This depends on temperature, paper and the nature of the image. For extremely critical work we advise not exceeding 30 prints per liter or 24 hours keeping. Process capacity can be increased by extending development time towards the end of the run.

For questions concerning this product, please call the Formulary at 406-754-2891.

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