

PHOTOGRAPHERS' FORMULARY INC.

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FORMULARY PYROCATECHOL PAPER DEVELOPER 120ED

(Edwal-120) 1-liter kit

Formulary 120ED was created by Edmund Lowe of the Edwal Laboratories many years ago and was published in their now out-of-print book, "Modern Developing Methods". Formulary uses the name 120ED to distinguish this formula from Formulary 120, a soft working developer.

Formulary 120ED produces prints with rich black tones that have an abrupt gradation. The level of restrainer needed with this developer depends upon the type of paper you are using. Therefore, a procedure for customizing the restrainer level is given in these directions.

CHEMICALS CONTAINED IN THIS KIT

Your kit contains the following chemicals:

Chemical	Amount
Catechol	10g
Sodium sulfite	20g
Potassium carbonate, anhydrous	120g
Potassium bromide	5g
Benzotriazole	0.5g

CHEMICAL SAFETY

All chemicals are dangerous and must be treated with respect. Please read the warning on each package. There is only one chemical in this kit that needs special attention: catechol.

Catechol (pyrocatechin) has a high vapor pressure and it is a phenol. The high vapor pressure means that the solid catechol evaporates readily. When you open a bottle of catechol, you can smell it. When mixing a solution containing catechol, work in a well-ventilated area. When catechol is in solution its vapor pressure is not a problem. The fact that catechol is a phenol means that it is a corrosive and has the potential to cause skin burns. If you should spill a solution of catechol, wash the area (or skin) with soap and water. Use tongs or rubber gloves whenever possible.

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

If you want 500 ml of working solution, then;
 500 ml x 0.05 = 25 ml

If you want 1000 ml of working solution, then:
 1000 ml x 0.05 = 50 ml

MIXING THE WORKING SOLUTION

For Slow Papers (chloride or chlorobromide papers)

Approximate Volume of working Solution Desired

Solution	Parts	100 ml	500 ml	1000 ml
Stock Solution A	1	33 ml	165 ml	333 ml
Stock Solution B	2	66 ml	330 ml	666 ml
Water	None	none	none	none
Restrainer Solution	(determined)	by	experiment)	experiment)

Fast papers (bromide papers)

Approximate Volume of Working Solution Desired

Solution	Parts	100ml	500ml	1000ml
Stock Solution A	1	25ml	125ml	250ml
Stock Solution B	2	50ml	250ml	500ml
Distilled Water	1	25ml	125ml	250ml
Restrainer Solution	(determined)	by	experiment)	experiment)

DEVELOPMENT

Develop for 3 minutes at 20° C/68° F. Fix, clear, and wash using standard techniques.



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