

KODAK PROFESSIONAL POLYMAX T Developer and KODAK PROFESSIONAL POLYMAX T Fixer

Kodak

TECHNICAL DATA / CHEMICALS

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KODAK PROFESSIONAL POLYMAX T Developer and KODAK PROFESSIONAL POLYMAX T Fixer are liquid concentrates designed for tray processing of black-and-white photographic papers.

KODAK PROFESSIONAL POLYMAX T Developer produces neutral or cold tones with cold-tone papers. It is supplied as an easy-to-use liquid that dilutes 1 part concentrate with 9 parts water at 70 to 80°F (21 to 27°C).

KODAK PROFESSIONAL POLYMAX T Fixer is a single-solution, liquid-concentrate, hardening fixer. It is for use with POLYMAX T Developer as well as other developers. Dilute 1 part concentrate with 7 parts water. POLYMAX T Fixer is also for use with tank or tray processing of film; dilute 1 part concentrate with 3 parts water.

FEATURES	BENEFITS
<ul style="list-style-type: none"> Liquid concentrate 	<ul style="list-style-type: none"> Easy mixing
<ul style="list-style-type: none"> High capacity 	<ul style="list-style-type: none"> Up to 120 8 x 10-inch prints per gallon
<ul style="list-style-type: none"> Good keeping characteristics 	<ul style="list-style-type: none"> Indefinite storage of unopened concentrates Good storage characteristics for concentrate after opening
<ul style="list-style-type: none"> Versatile 	<ul style="list-style-type: none"> Can be used with both fiber and resin-coated papers

SIZES AVAILABLE

CAT No.	Description
KODAK PROFESSIONAL POLYMAX T Developer	
864 8834	liquid—1-gallon cube
138 8354	liquid—1-quart bottle
KODAK PROFESSIONAL POLYMAX T Fixer	
853 6625	liquid—1-gallon cube

STORAGE LIFE AND CAPACITY

Most properly stored photographic solutions in the original sealed packages will remain in good condition for a long time. Storage temperatures are important—65 to 70°F (18 to 21°C) is a good range. At higher temperatures, the times are proportionately shorter.

KODAK PROFESSIONAL Chemical	Keeping Properties Without Use		Working Solution in Tray	Useful Capacity 8 x 10 Sheets Per Gal/L in a Tray (Dilution)
	Concentrate in Closed Container			
	Full	Half Full		
POLYMAX T Developer	Indefinite ¹	2 months ²	1 working day	120/32 (1:9)
POLYMAX T Fixer	Indefinite ¹	2 months ²	1 week	100/26 (1:7)

¹Concentrate in original sealed package.

²Air will affect a chemical once it has been opened. The less contact the chemical has with air, the longer it will keep. Actual life of the chemical will depend on your darkroom conditions.

KODAK PROFESSIONAL Papers Tray Processed in KODAK PROFESSIONAL POLYMAX T Chemicals

Fiber-Base Papers

- AZO
- POLYMAX Fine-Art

Resin-Coated Papers

- KODABROME II RC
- P-MAX Art RC
- PANALURE SELECT RC
- POLYCONTRAST III RC
- POLYMAX II RC

PROCESSING RECOMMENDATIONS

Development

To obtain high-quality prints, you must process papers correctly. For best quality, adjust the printing exposure so that the print develops to the correct density within the recommended time.

Overexposed and underdeveloped prints often have a muddy-looking appearance (with low contrast and weak blacks) because they are pulled from the developer in much less than the recommended time. These images are often mottled from uneven development.

Developing underexposed prints too long in an over-worked solution is likely to produce a yellow stain from the oxidation products of the developer. This may also increase the contrast.

Print Agitation

Make sure the emulsion side of the print is covered by solution as quickly as possible. During development, agitate the solution by gently rocking the tray or by keeping the print in motion. Follow this procedure for the fixer also.

When you process several prints together, put them into the tray one at a time. Then agitate by taking the bottom print and moving it to the top. Do this continuously during the time the prints are in the developer. Drain each print briefly after removing it from the solution.

Fixing

To provide greater fixing capacity per gallon of fixer, use two separate fixing baths in succession. Fix prints in each bath for one-half the recommended single-bath time. When the first bath is exhausted (two hundred 8 x 10-inch prints per gallon), discard it and replace it with the second. Mix a fresh second bath. Repeat the cycle four times, then replace both baths. Replace both baths after one week of use, regardless of the number of prints processed. In a two-bath setup, the first bath does most of the work, and the second bath remains relatively fresh to complete the fixing. A two-bath fixing bath procedure will enhance conditions necessary for complete washing and effective toning.

Fixing times longer than the recommended times may reduce (lighten) the silver image, especially in highlight areas. Also, prolonged fixing causes fixer and silver retention in the paper fibers, making washing difficult and reducing the stability of the image.

Tray Processing

Following are general starting-point recommendations for tray processing with continuous agitation.

KODAK PROFESSIONAL Chemical	Processing Time (min:sec)	Temperature
FIBER-BASE PAPERS		
POLYMAX T Developer	0:45 to 4:00	68°F (20°C)
POLYMAX T Fixer <ul style="list-style-type: none">Single bathTwo baths	5:00 to 10:00	65 to 75°F (18 to 24°C)
	3:00 to 5:00	
RESIN-COATED PAPERS		
POLYMAX T Developer	0:45 to 3:00	68°F (20°C)
POLYMAX T Fixer <ul style="list-style-type: none">Single bathTwo baths¹	2:00	65 to 75°F (18 to 24°C)
	1:00	

¹Since recommended fixing times are shorter with resin-coated papers, the use of two fixer baths may not be practical. If you decide to use two baths, just cut the time in half for each bath.

Following are starting-point recommendations for tray processing KODAK fiber-base and resin-coated papers using KODAK PROFESSIONAL POLYMAX T Developer with continuous agitation.

KODAK Chemical	KODAK Paper	Recommended Process Time (min:sec)	Process Range (min:sec)	Image Tone
FIBER-BASE PAPERS				
POLYMAX T Developer — 68°F (20°C)	AZO	1:00	0:45 to 2:00	Warm black
	POLYMAX Fine-Art	1:30	1:00 to 3:00	Neutral black
POLYMAX T Fixer— 65 to 75°F (18 to 24°C) • Single bath • Two baths	—	5:00	5:00 to 10:00	—
	—	3:00	3:00 to 5:00	—
RESIN-COATED PAPERS				
POLYMAX T Developer — 68°F (20°C)	KODABROME II RC	1:00	0:45 to 2:00	Neutral black
	P-MAX Art RC	1:00	0:45 to 2:00	Warm black
	PANALURE SELECT RC	1:00	0:45 to 2:00	Warm black
	POLYCONTRAST III RC	1:00	0:45 to 2:00	Neutral black
	POLYMAX II RC	1:00	0:45 to 2:00	Neutral black
POLYMAX T Fixer ¹ — 65 to 75°F (18 to 24°C) • Single bath • Two baths	—	2:00	2:00	—
	—	1:00	1:00	—

¹Agitate continuously for the first 15 to 30 seconds, and occasionally after that.

MORE INFORMATION

The following publications are available from dealers who sell Kodak products, or you can contact Sino Promise in your country for more information.

Kodak has many publications to assist you with information on Kodak products, equipment, and materials.

E103CP	<i>Chemicals for KODAK Black-and-White Papers (Matrix)</i>
G-16	<i>KODABROME II RC Paper</i>
G-21	<i>KODAK POLYCONTRAST III RC Paper</i>
G-24	<i>KODAK PROFESSIONAL POLYMAX Fine-Art Paper</i>
G-26	<i>KODAK PROFESSIONAL POLYMAXII RC</i>
G-27	<i>KODAK PANALURE SELECT RC Paper</i>
G-28	<i>KODAK P-MAX Art RC Paper</i>
J-2A	<i>Health, Safety, and Environmental Emergency Card</i>
J-4	<i>Safe Handling of Photographic Chemicals</i>

For the latest version of technical support publications for KODAK PROFESSIONAL Products, visit:
www.kodaksino.com

Note: The Kodak materials described in this publication for use with KODAK PROFESSIONAL POLYMAX T Developer and POLYMAX T Fixer are available from dealers who supply KODAK PROFESSIONAL products. You can use other materials, but you may not obtain similar results.

TM/MC/MR: Azo, P-Max, Panalure, Polycontrast, Polymax, Select

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