

Film Chemicals: For Professional Labs

B&W PROMICROL FINE GRAIN FILM DEVELOPER

- High grade developer
- Highly stable liquid concentrate
- Formulated for critical professional use
- For processing all general purpose roll and sheet, monochrome film materials
- Usable in all types of manual and machine processing units.
- Sharp, fine grain images
- Replenishable or "One-Shot" usage

EXPOSING FILMS FOR PROCESSING IN B&W PROMICROL

Developing all films in B&W PROMICROL will produce a speed increase of one half to one full stop when compared to the manufacturer's rating. A further speed increase of one to one and a half stops will be achieved with most films if the published development times are extended by 20 to 50%. The exact E1 increase, obtained in this way, will be dependent upon the user's own method of assessment.

USE OF B&W PROMICROL

APPLICATION	DILUTION
Manual or Machine processing with replenishment	1 + 9
Manual or Machine Processing One-Shot Usage	1 + 14

BASIC DEVELOPMENT TIME (IN MINUTES)

FILM TYPE		WORKING TEMPERATURE			
MANUFACTURER	EMULSION DESIGNATION	@20°C		@24°C	
		DILUTION			
		1 + 9	1 + 14	1 + 9	1 + 14
PATERSON	ACUPAN 200	6	9	4	6
	ACUPAN 800	13	19	9	13
AGFA	APX 25	6	9	4	6
	APX 100	7	11	5	8
	APX 400	8.75	13	6	8.75
FUJI	NEOPAN 100	5	8	4	6
	NEOPAN 400	12	19	8	13
	NEOPAN 1600	12	19	8	13
ILFORD	PAN F PLUS	5	7	3	5
	FP4 PLUS	6	9	4	6
	HP5 PLUS	11	16	8	11
	100 DELTA PRO	8	12	5	8
	400 DELTA PRO	10	16	7	11
	DELTA 400 PRO	11	16	8	11
	DELTA 3200	14	21	10	14
JESSOPS	PAN 100	6	10	4	7
	PAN 400	8	13	5	9
KODAK	PLUS X PRO	5	7	3	5
	TRI-X PAN	9	13	6	9
	T-MAX 100	8	13	5	9
	T-MAX 400	12	18	8	12
	T-MAX 3200	15	22	11	15
	HIGH SPEED INFRA-RED	13	19	9	13
	TECHNICAL PAN 2414	7	10	5	7
KONICA	INFRA-RED	11	16	8	11
MACO	UP64c	4.5	7	3	4.75
	UP100 PLUS	5	7.5	3.5	5.25
	UP400 PLUS	6.75	10	4.5	6.75
	TP 64c	4.5	7	3	4.75
	PO100 PLUS	6.5	10	4.25	6.75
	IR750c	6	8.5	4	5.75
	IR820c	6	8.5	4	5.75
	CUBE 400c	10	14	6.5	10

Agitation

Manual processing

Intermittent agitation

If continuous agitation is employed, then the development time should be reduced by 25%

Machine processing

Continuous agitation

All of the development times, published in the above table, are starting point recommendations which are applicable only to films that have been exposed for processing in B&W PROMICROL.

It is always advisable when using a new, or an unfamiliar film material, to first conduct exposure and development time tests in order to establish the combination which best suits the particular technique in use, and produces the negative contrast range that achieves the desirable reproduction of the original subject.

Replenishment

When employed at the 1 + 9 dilution, the used developer bath can be replenished to maintain a constant work output quality.

To prepare the replenisher solution, the B&W PROMICROL concentrate should be diluted 1 + 4, then added to the used developer bath, at the rate of 300mls/sq. metre of processed film.

That is:

Film Size	Replenisher Addition ml/film
135-24	12
135-36	17
120	15
220	30
4in x 5in	4
8in X 10in	16

These are the basic replenisher addition rates, which will vary dependent upon the film type in use and the degree of exposure.

FINAL STEPS IN PROCESSING MONOCHROME FILMS

- i) Stop Bath
The films should be agitated continuously for thirty seconds in a stop bath prepared by diluting 50mls of 80% Acetic Acid to 1 litre with water.
- ii) Fixation
The films should be fixed in a 1 + 4 dilution of B&W AMFIX High Speed Fixer.
- iii) Washing
The fixed films should be washed in running water at 20° - 25°C for 10 - 15 minutes.
- iv) Dry
Dry in a dust-free place. To minimize drying marks, treat the film before drying in a solution of 5mls NOSTAT-X Plus diluted to one litre.

CHAMPION
Kodak

For further information concerning the use of PROMICROL, then please see our publication, "FINE GRAIN DEVELOPMENT".

B&W PROMICROL Fine Grain Film Developer	6x1L	180110
B&W AMFIX High Speed Fixer	2x5L	180201
NOSTAT-X Plus Antistatic Additive	2x1L	191304

STORAGE OF CHEMICALS:

- Concentrates - All of the processing system concentrates have a normal storage life of at least 12 months, when held in unopened containers under steady temperature conditions in the range 13°C-18°C. However, a storage temperature below 5°C should be avoided as some crystallization may occur.
- Working Solutions and Replenishers - Machine tank solutions should not be allowed to stand unused for more than one week, or the activity will be reduced by aerial oxidation. No more than one week's supply of any of the replenisher solutions should be made up at a time. Replenisher solutions should be kept covered with lids to reduce evaporation, oxidation and contamination.

- Safe Use of Processing Chemicals -All chemicals should be kept out of reach of children. Refer to labels on the box and to the Safety Data Sheet for precautionary information. Protective clothing, including gloves and face/eye protection should always be worn when handling chemicals.

Contact our Technical Services Department or your local representative to determine which combination of chemicals is best suited for your use.

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Manufactured By
CHAMPION PHOTOCHEMISTRY INTERNATIONAL LTD
Hubert Road, Brentwood, Essex, CM14 4JE, UK
Tel: (1277) 263646 Fax: (1277) 260832
www.championphotochemistry.com

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