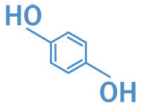
ARS-IMAGO FD
FILM DEVELOPER



ARS-IMAGO FD FILM DEVELOPER is a highly concentrated, high-energy black and white film developer with a moderate compensating effect. Film sensitivity is exploited thoroughly (high sensitivity to the foot); moreover, its high energy and moderate compensating effect allow high I.E. (along with the appropriate development times) without causing excessive contrast or excessive compression of lighter tones. The developer yields good acutance and fine grain, without the formation of excessive agglomerates of silver salts even in push-processing.

Economical: very high development yield

Effective: full exploitation of film's sensitivity

Energetic: suitable for push-processing

PREPARATION

ARS-IMAGO FD FILM DEVELOPER is a concentrated liquid that needs to be diluted immediately prior to its use and thrown after the development process.

It is a "One Shot" developer: the diluted working solution must not be reused. Throw after use.

Generally, the most balanced results are obtained with a 1+39 dilution. However, it is possible to use dilutions between 1+19 and 1+59.
1+39 dilution allows a wide choice of development times with most films and provides excellent results even with the use of advanced contrast control techniques such as the Zone System.

For high contrast contrast films, a higher dilution is recommended, up to 1+59.
In these cases, it is advisable to use at least 6 ml of concentrated liquid for each 135/120 format film. For low-contrast films, a lower dilution is recommended, starting from 1+19.

Prepare the working solution with running water. The volume of required working solution depends on the size and kind of tank and the number of films/spirals in the tank.

975ml WATER + 25 ml CHEMICAL = 1L WORKING SOLUTION

TEMPERATURE

The working solution must be used at 20°C. During the entire development process, including stop bath, fixing bath and final rinse, the temperature must be kept as constant as possible.

AGITATION

Recommended agitation for tank development: continue for the first 30 seconds, two inversions every 30 seconds for the remaining development time.
The development time starts from the moment the solution is introduced into the tank and ends when the stop bath is introduced.
At the end of each agitation sequence, rap the tank on the working desk to avoid the formation of air bubbles on the surface of the film.

KEEP OUT OF REACH OF CHILDREN

DEVELOPMENT TIME

The following development times are suggested in order to obtain negatives with an optimum tonal extension in regard to the provided I.E. and that are suitable for analog printing and digital scanning.

Dilution: +39 (1+19 or 1+59 where indicated)
Temperature: 20°C

FILM	ISO	TIME	DILUTION
IMAGO 320	320	8'30''	1+39 a 20°
	620	10'00''	1+39 a 20°
ILFORD HP5	200	4'00''	1+39 a 20°
	400	5'15''	1+39 a 20°
	800	8'00''	1+39 a 20°
	1600	13'00''	1+39 a 20°
ILFORD FP4 PLUS	125	5'00''	1+39 a 20°
	250	6'30''	1+39 a 20°
	400	8'00''	1+39 a 20°
ILFORD PAN F PLUS	50	6'00''	1+39 a 20°
ILFORD DELTA 100	50	4'30''	1+59 a 20°
	100	5'45''	1+59 a 20°
	160	8'00''	1+59 a 20°
ILFORD DELTA 400	200	5'30''	1+39 a 20°
	400	7'30''	1+39 a 20°
	800	13'00''	1+39 a 20°
ILFORD DELTA 3200	1600	8'30''	1+19 a 20°
	3200	6'00''	1+19 a 20°
KODAK T-MAX 400	200	6'00''	1+39 a 20°
	400	7'30''	1+39 a 20°
	800	9'00''	1+39 a 20°
	1600	12'30''	1+39 a 20°
KODAK T-MAX 100	50	4'30''	1+39 a 20°
	100	6'30''	1+39 a 20°
	200	9'00''	1+39 a 20°
KODAK TRI-X 400	200	4'30''	1+39 a 20°
	400	6'30''	1+39 a 20°
	800	8'30''	1+39 a 20°
	1600	11'00''	1+39 a 20°
KODAK P3200	1600	6'00''	1+19 a 20°
	3200	8'00''	1+19 a 20°
ROLLEI RPX 100	50	4'45''	1+59 a 20°
	100	5'30''	1+59 a 20° **
	200	6'30''	1+59 a 20° *
ROLLEI RPX 400	100	4'30''	1+39 a 20°
	200	6'30''	1+39 a 20°
	400	9'30''	1+39 a 20°
ROLLEI ORTHO 25	25	6'00''	1+39 a 20°
ROLLEI INFRARED	400	7'30''	1+59 a 20°
KENTMERE 100	50	5'15''	1+39 a 20°
	100	7'50''	1+39 a 20°
KENTMERE 400	200	4'30''	1+39 a 20°
	400	6'30''	1+39 a 20°
	800	10'00''	1+39 a 20°
FOMAPAN 100	100	6'30''	1+39 a 20°
FOMAPAN 400	400	9'00''	1+39 a 20°
AGFAPHOTO APX 100	50	4'30''	1+59 a 20°
	100	5'30''	1+59 a 20°
	200	8'00''	1+59 a 20°
JCH Stree t Pan	400	12'00''	1+39 a 20°
BERGGER PANCRO	400	10'30''	1+39 a 20°
FUJI ACROS 100	100	6'30''	1+59 a 20°
	100	4'00''	1+39 a 20°
	200	5'00''	1+39 a 20° *

* High Contrast
** Presoak recommended

STOP BATH

It is recommended to use a stop bath between the development and fixing baths, unless otherwise specified by the film producer. We suggest using ARS-IMAGO ST - STOP BATH.

FIXING BATH

We suggest using ARS-IMAGO FX-FIXER UNIVERSAL as a fixing bath. It is recommended not to fix the films beyond necessity in order to fully appreciate the high resolution which characterises this development bath. To avoid long fixing times, we recommend using a new or regenerated fast-fixing, non-hardening solution, at the highest concentration specified by the producer (typically 1+4).

FINAL RINSE

Wash in running water at 20° C for 10-15 minutes or repeatedly fill and empty the tank while gradually increasing the agitation.

WETTING AGENT

After rinsing, it is recommended to use a wetting agent as a last bath. We suggest using ARS-IMAGO WB - WASHING BATH.

DRYING

Dry the film in a closed area, away from dust and draughts.

CAPACITY

It is possible to develop up to 40 films per 300ml of concentrated liquid.

LIFE OF THE PRODUCT

It is recommended to use the concentrated solution within 6 months after opening. It is recommended to remove air from the packaging by compressing it, by inserting glass beads or by filling it with inert gases.