

A-49 Super Fine-Grain Film Developer



A-49 is a 2-part powder film Developer, designed to process B&W negative films, especially when positive enlargements with very fine grain structure at medium contrast are needed.

A-49 is preferred to be used for manual processing in trays and tanks. Processing in automatic film processors is also possible.

Processing B&W films in **A-49** yields negatives with fine grain structure with optimum use of

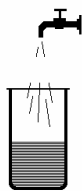
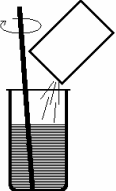
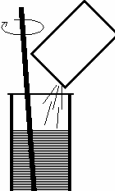
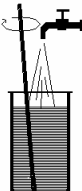
film speed. Therefore **A-49** is an excellent choice for developing high-speed fine-grained films. The working solution is highly durable and has good resistance against oxidation.

A-49 delivers performance similar to the following developers: Agfa Atomal FF, Tetenal Emofin or Kodak Microdol X.

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Mixing Instructions

Take first 800 - 900 mls of Water (at 20 - 30 °C)	... add part 1 while stirring	... add part 2 while stirring	... fill up with water (at 10 - 20 °C) to final volume of 1 Litre while stirring
			

ATTENTION: Do not split contents of Original package.

Durability

Powder Developer working solutions last longer than those of liquid concentrates. However, it is recommended to store (if needed) even these solutions in well closed bottles filled up to top to prevent from oxidation. This way you can use ready solution up to 4 weeks.

Processing Parameters

A-49 developer can be used for all B&W negative film processing. Developer time depends on available temperatures, film type, photographic subject and results the photographer wishes to achieve.

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Developing Chart

Film Manufacturer	Film Type	Time (at 20 °C)
AGFA	APX 25 APX 100 APX 400	9 to 10 min 9 to 11 min 10 to 12 min
FOMA	Fomapan 100 Fomapan 200 Fomapan 400	6 to 8 min 8 to 10 min 8 to 10 min
FUJI	NP 400 NP 1600 Neopan 100 Acros	8 to 10 min 6 to 8 min 8 to 9 min
ILFORD	PAN F FP 4 HP 5 DELTA 100 DELTA 400	7 to 8 min 7 to 8 min 8 to 10 min 5 to 7 min 6 to 8 min
KODAK	Tmax 100 Tmax 400 Tmax 3200 Tri X	10 to 12 min 7 to 9 min 11 to 13 min 7 to 8 min
EFKE	KB25 KB50 KB100	5 to 6 min 6 to 7 min 8 min

All times listed above are values for orientation;
Contrast: medium (g=0,65).

Agitation: - first minute continuous agitation.,
- then every 30 seconds 3 inversions.

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Capacity

A-49 works without replenisher. Up to 10 film rolls size 135-36 or size 120 can be processed in 1 Litre of working solution in normal dilution.

Beginning with the third film and then every following film, developer time has to be prolonged by 1 minute each.

Dilution

To reach negatives with more details and better balance, A 49 ordinary developer solution can be diluted. In these cases processing times are changing, as follows (times listed above to multiply by factor...):

Dilution	1 + 1	1 + 2
Factor	1,3 - 1,5	1,7 - 2,0

Diluted solutions should be made fresh and taken for one development cycle only. It is not recommended to store them or to use later on in further cycles.

Storage and Handling

Developer powders have to be kept dry (at 10 to 25 °C) in the closed package before mixing with water.

It is recommended to wear protective gloves, when handling and working with photochemical powders and solutions.

Industrial user: Note the governmental regulations and laws, when disposing used chemicals.

For further information, please contact the manufacturer.