

## SUPERFIX TABS

### SUPERFIX TABS

20 tablets each 20 g Art. No. 105520

For approx. 3 litres of film fixer or for approx. 4.5 litres of paper fixer

Capacity: max. approx. 60 films 135-36 or approx. 10 m<sup>2</sup> PE/RC paper or approx. 5 m<sup>2</sup> FB paper

SUPERFIX TABS is a fixer in tablet form for Black & White films and Black & White papers in trays and developing tanks. The portioning "1 tablet for 150 ml" allows a particularly easy handling: depending on the filling quantity of the developing tank or developing tray used, the required number of tablets is dissolved in water. The extraordinarily long shelf life of SUPERFIX TABS of at least 4 years allows for particularly high economic efficiency, especially when working only sporadically over longer periods of time.

### Mixing

Fresh fixer working solution is prepared by dissolving SUPERFIX TABS in water. Cold water makes it difficult to dissolve the tablets - warm water makes it easier. Hot water of approx. 40 - 60 °C is ideal. After cooling down, the fixer is immediately ready to use. Separate solutions should be used for films and papers. For mixing it is recommended to use a sufficiently large plastic mixing vessel and a mixing rod. Place the required number of tablets for a certain mixing volume in the empty mixing vessel, pour in hot water until the requested volume is reached and wait a few minutes until the first dissolutions are visible. Stir with the rod until the tablets are entirely dissolved.

### Capacity

#### BLACK & WHITE FILMS

Classic emulsions such as Pan F, FP4, HP5, SFX, Tri-X, Adox, Bergger, Foma, Kentmere, Rolleiflex.

Tablets	Approach	Capacity per mix		
		135-36	120	4x5"
1	150 ml	3	3	12
2	300 ml	6	6	24
3	450 ml	9	9	36
4	600 ml	12	12	48
5	750 ml	15	15	60
6	900 ml	18	18	72
7	1050 ml	21	21	84
8	1200 ml	24	24	96
9	1350 ml	27	27	108
10	1500 ml	30	30	120

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## BLACK & WHITE FILMS

T-Grain emulsions such as Delta, T-Max.

Tablets	Approach	Capacity per mix		
		135-36	120	4x5"
1	150 ml	2	2	8
2	300 ml	4	4	16
3	450 ml	6	6	24
4	600 ml	8	8	32
5	750 ml	10	10	40
6	900 ml	12	12	48
7	1050 ml	14	14	56
8	1200 ml	16	16	64
9	1350 ml	18	18	72
10	1500 ml	20	20	80

## BLACK & WHITE PAPERS

Tablets	Approach	PE/RC	FB
2	450 ml	1 m <sup>2</sup>	0,5 m <sup>2</sup>
4	900 ml	2 m <sup>2</sup>	1 m <sup>2</sup>
6	1350 ml	3 m <sup>2</sup>	1,5 m <sup>2</sup>
8	1800 ml	4 m <sup>2</sup>	2 m <sup>2</sup>

Mixed fixers must not be diluted beyond the specified quantities - on the other hand, slightly more concentrated mixes are possible.

### Temperature

Fixation of B&W films and B&W papers in trays and developing tanks is done at room temperature of approx. 20°C ± 2°C. Higher temperatures up to 26°C are possible.

### Agitation

Fixation in trays and tanks requires regular agitation. The developing tank should be alternately tilted by 180°. In doing so, the tank is turned upside down and then immediately returned to the starting position. The sequence 10 seconds of agitation, 10 seconds of pause, 10 seconds of agitation, etc. has proven to be effective. When processing in trays, there are two options: either rock the tray slightly and move the liquid or grasp the paper with a pair of laboratory tongs and move it slightly up and down. In doing so, the position of the laboratory plier must be changed at short intervals to allow complete treatment of all surfaces.

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## Time

The fixing times for films and papers vary, depending on the type of material, the concentration, the temperature and the degree of utilisation. Emulsions with T-grain technology such as Ilford Delta or Kodak T-Max require longer fixing times than films with classic emulsion technology such as Ilford FP4, Adox, Rollei RPX, and others.

**PE/RC papers:** approx. 45 seconds

**FB papers:** approx. 90 seconds

**T-Grain films** such as Ilford Delta or Kodak T-Max: approx. 4 - 6 minutes

**Classics films** such as Ilford Pan F, Agfa APX, etc.: approx. 3 - 5 minutes

With a utilisation of up to approx. 50 %, the shorter fixing times can be applied with a utilisation of more than approx. 50 %, the longer times should be applied.

An individual check of the fixing time of films can be carried out by determining the clearing time. The clearing time is the time required from the immersion of a film in a fixer until the milky haze disappears. Twice the clearing time is the required fixing time.

## Storage and shelf life

SUPERFIX TABS have a shelf life of 4 years and longer. Storage in the original packaging in a dry place can take place in a wide temperature range from - 40 °C to + 40 °C, regardless of the ambient temperature. Storage temperatures of 5 - 25°C are ideal. Storage should be cool and dry in the original packaging, temperatures of 10 - 20°C are ideal. Store freshly prepared and used working solutions in full bottles. Used working solutions have a shelf life of approx. 4 - 8 weeks - depending on utilisation.

## Occupational safety

Handling of photographic chemicals is safe if used properly and protective measures are followed. Hazard and precautionary information can be found on the label (H and P phrases, hazard symbol) and in the safety data sheet. Personal protective equipment (PPE) should include safety goggles or face shield, protective gloves and a lab coat or apron

## Disposal

Photochemicals - concentrates or working solutions - must be disposed of in compliance with all local and national regulations.

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