

The developing recommendations made in this leaflet are put forward as a tentative guide. Unknown factors such as the contrast required by individual workers, the technique employed, and the materials and apparatus involved before the final print is obtained, make it impracticable to specify more exactly the development times required.

Directions for Mixing : This pack contains two packets and a small phial. When mixing, take care that each powder is completely dissolved before adding the next.

First dissolve the contents of the smaller packet in a quantity of water at 90°-100°F. (32°-38°C.), equal to approximately three-quarters of the final volume specified on the label. When completely dissolved, stir in the contents of the larger packet. When this has dissolved add the contents of the phial, and rinse in the solution to ensure that all the crystals have been extracted. When all the chemicals are dissolved make up to the final volume with cold water and stir thoroughly.

The final volume of solution may not correspond with the amount required for certain special types of developing tanks. If the volume given by the package is in excess of requirements, the surplus may be used for maintaining the level of the developer as it is used. Alternatively, the powder may be made up in the volume of water necessary to suit the tank, provided this is not less than two-thirds or greater than one and a half times the recommended amount; the developing times should then be adjusted in the same ratio.

Containers : Glazed stoneware, glass or unchipped enamelled containers are recommended for the mixing and storage of developing solutions. NEVER use aluminium, tin, copper or galvanized ware.

Working Life : DK.20 'Kodak' Developer should be kept in a tightly stoppered bottle, filled to the neck. To obtain consistent negative contrast when developer is used repeatedly, increase development times as follows. When developing 80 sq. in. of film at a time (one 35 mm., 120 or 620 roll) in 20 oz. (570 cc) of developer, each film should be given about 10% longer than the previous one. After four rolls have been processed discard the solution. Used developer should not be stored longer than a month.

DK20 DEVELOPMENT

DK20 DEVELOPMENT TIMES AT 68°F (20°C)

35mm and Bantam Films

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	AGITATION	
	Continuous*	Intermittent†
'SUPER-XX'	9-14 min	11-17 min
'PLUS-X'	9-12 min	11-15 min
'PANATOMIC'-X	12-17 min	15-21 min

Roll Films

'SUPER-XX'	10-14 min	12-18 min
'PLUS-X'	7-10 min	9-13 min
'PANATOMIC'-X	11-16 min	14-20 min
'VERICHROME'	7-10 min	9-13 min

Sheet Films

'SUPER PANCHRO-PRESS'	10 min	12 min
'SUPER-XX'	13 min	16 min
'PANATOMIC'-X	15 min	19 min
'ORTHO-X'	13 min	16 min
COMMERCIAL ORTHO	13 min	17 min
COMMERCIAL FINE GRAIN	7½ min	9 min

Plates

P.1500	7 min	8½ min
P.1200	11 min	14 min
P.300	6 min	8 min
O.800	11 min	14 min
O.250	7 min	8½ min

*Dish-developing film or continuously rotating a spiral-reel in tank.

†In tank with thorough but brief agitation once a minute.

Development: Use the developer without dilution. For Roll Films and Miniature Films, the longer time is recommended as giving higher film speed and moderate-contrast negatives which yield minimum graininess in the final print. The shorter times are suggested for workers who prefer negatives of lower contrast. For Sheet Films and Plates, times are based on optimum film speed and contrast for minimum print graininess.

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