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## Film developer

Very fine grain

High contour sharpness

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## BERGGER Superfine

**BERGGER Superfine is a developer that allows to obtain both a very fine grain and a high contour sharpness by pulling the film for one stop. BERGGER Superfine is recommended with most traditional or modern grain films. Normal development times of more than 10 minutes allow a fine control of the results by modifying the development time.**

### Introduction

BERGGER Superfine is a concentrated liquid developer.

### Conservation

The concentrated developer can be used for 9 months after opening. However, it is very important to shake the developer vigorously before diluting it. The substances contained in the developer tend to concentrate in the bottom of the bottle over time.

### Use instructions

The preparation is done immediately before use.

It is important **to shake the bottle vigorously before dilution.**

Dilute BERGGER Superfine 1+4 with water (e. g. 250 ml BERGGER Superfine + 1000 ml water).

It is necessary to use at least 250 ml of working solution per film.

The development temperature is  $24^{\circ}\text{C} \pm 0.5^{\circ}\text{C}$ , and the temperature must be maintained.

### Film processing

It is recommended to **pre-wet the film for at least five minutes in water.** Then fill the tank with the BERGGER Superfine working solution and **shake gently but constantly for the first 15 seconds.**

**Then turn or shake every 30 seconds.**

At the end of the revelation time, stop the reaction with a stop bath and fix as usual.

### Chemical handling

Photographic chemicals are not hazardous when used correctly. It is recommended that gloves, eye protection and an apron are worn when handling and mixing all chemicals.

## Developing times - BERGGER Pancro400

The development temperature must be 24°C. The given times can be adapted according to your preferences.

Film	ISO	Gamma	Dil	Developing time (24°C)
BERGGER Pancro400	80	0,57	1 + 4	12'
BERGGER Pancro400	100	0,60	1 + 4	13'
BERGGER Pancro400	125	0,62	1 + 4	15'
BERGGER Pancro400	160	0,66	1 + 4	16'
BERGGER Pancro400	200	0,70	1 + 4	17'

## Developing times - other films

The development temperature must be 24°C. The given times can be adapted according to your preferences.

Film	ISO	Dil	Developing time (24°C)
Ilford Pan F+	25	1 + 4	12'
Ilford FP4+	64	1 + 4	12'
Ilford HP5+	200	1 + 4	14'
Ilford Delta 100	50	1 + 4	12'
Ilford Delta 400	200	1 + 4	14'
Ilford Delta 3200	250	1 + 4	17'
Kodak Tri-x 400	160	1 + 4	13'
Kodak Tmax 100	50	1 + 4	12'
Kodak Tmax 400	200	1 + 4	12'
Kodak Tmax 3200	320	1 + 4	17'
Fujifilm Acros 100	50	1 + 4	12'