

TECHNICAL INFORMATION

WONDERPAN 400

ISO 400/22°, BLACK AND WHITE FILM



Based on a best-selling black-and-white emulsion - but with a change in ISO rendering different results to the original box speed - WonderPan 400 produces monochrome images with strong contrast, dark blacks, and moderate grain in the midrange tones.

DEVELOPMENT TIMES

Take a look at the table below that shows the development times for both manual and machine processing of WonderPan 400. These times are specifically designed to give you negatives with average contrast, perfect for printing in any enlarger. They serve as a helpful guide, but feel free to make adjustments if you're aiming for a different result.

If you're using spiral tanks or deep tanks for manual processing, the development times listed are based on intermittent agitation. However, if you prefer continuous agitation (like using a dish/tray or certain types of developing tanks), you can reduce these times by up to 15%. Similarly, if you're using rotary processors without a pre-rinse, you can decrease the spiral tank development times by up to 15%. Just a friendly tip: it's not recommended to use a pre-rinse as it can result in uneven processing.

Feel free to refer to the table below and adjust the times according to your needs.
Happy developing!

Developer	Dilution 	(20°C/68°F) 
ID-11	1:1	18 mins
MICROPHEN	Stock	16 mins
X-Tol	1:1	14 mins
Rodinal	1:25	14 mins
Ilfosol 3	1:9	12 mins



PROCESSING

WonderPan 400 can be processed using various types of equipment like spiral tanks, rotary processors, dishes/trays, deep tanks, and automatic processors. The best part is, you can still maintain the standard capacity figures and replenishment rates without any hassle.

What's even more amazing is that WonderPan 400 is incredibly robust during processing, so it can handle less-than-ideal conditions like a champ. No need to worry about it causing any contamination in your processing chemicals either.

So go ahead and choose the processing equipment that suits you best. WonderPan 400 is here to deliver great results and make your life easier.

Safelight recommendations

Handle WonderPan 400 film in total darkness.

Agitation

Intermittent agitation is recommended for use in spiral tanks and deep tanks. With spiral tanks, invert the tank four times during the first 10 seconds, then invert the tank four times again during the first 10 seconds of each further minute. Otherwise, follow the recommendations given by the processing equipment manufacturer.

Stop, fix, wash and rinse

For best results it is recommended that all process solutions are kept at the same temperature or at least within 5°C (9°F) of the developer temperature.

Stop Bath

After development the film can be rinsed in water but we recommend that an acid stop bath is used.

Fix

The recommended fixers are ILFORD RAPID FIXER or ILFORD HYPAM FIXER.

Wash

Wash the films in running water for 5-10 minutes at a temperature within 5°C (9°F) of the process temperature.

Note:

For spiral tank use, the following method of washing is recommended. This method of washing is faster, uses less water yet still gives negatives suitable for long term storage. After fixing, fill the spiral tank with water at the same temperature, +/- 5°C (9°F), as the processing solutions and invert it five times. Drain the water away and refill. Invert the tank ten times. Once more drain the water away and refill. Finally, invert the tank twenty times and drain the water away.

We're here to lend a helping hand! If you need any further assistance with developing, please feel free to reach out to us.



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Rinse

For a final rinse use a wetting agent added to water, it helps the film to dry rapidly and evenly. Start by using 5ml per litre of rinse water (1+200), however the amount of wetting agent used may need some adjustment depending on the local water quality and drying method. Too little or too much wetting agent can lead to uneven drying. Remove excess rinse solution from the film before drying.

Drying

To avoid drying marks, use a clean squeegee or chamois cloth to wipe WonderPan 400 film before hanging it to dry. Dry WonderPan 400 at 30-40°C/86-104°F in a drying cabinet or at room temperature in a clean dust-free area.

STORAGE

For immediate use, store WonderPan 400 in a cool (10-20°C/50-68°F), dry place in its original packaging. WonderPan 400 may be stored in a fridge/freezer but allow plenty of time for the film to acclimatise prior to use.

Exposed film


Once exposed, process WonderPan 400 as soon as practical.

Exposed films should always be stored in cool, dry conditions - as recommended above.

Negatives

Store processed negatives in a cool (10-20°C/50-68°F), dry place, in the dark. Suitable storage sleeves include those made of cellulose triacetate, Mylar, paper (pH6.5-7.5) or inert polyester.

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