

## PRODUCT INFORMATION

### Optotrust *B&W Negative Developer for machine processing*

Optotrust is a replenishable fine-grain developer, designed for the processing of B&W negative films in dip & dunk and continuous flow processing machines.

For mixing of replenisher, the liquid 1-part concentrate is to be diluted with water, ensuring an easy handling and a safe application.

Optotrust supplies full exploitation of the fabricatory film speed and features an excellent tonal reproduction. A balanced wide development latitude, linked with a high process stability and constant sensitometry make Optotrust a preferred product for commercial laboratories.

Optotrust Replenisher

2 x 5 L conc. for 2 x 20 L

REF 13800

Optotrust Starter

1 L conc. for 50 L working solution

REF 13810

#### MIXING OF REPLENISHER

Water	Optotrust concentrate	Replenisher
 750 ml	 250 ml	 1 L
7,5 L	2,5 L	10 L
15 L	5 L	20 L

#### MIXING OF WORKING SOLUTION

Mixing of working solution is required, when the working tank of the machine is to be refilled, e.g. when installing a machine or after cleaning the tank during maintenance work.

The mixing of Optotrust working solution can be carried out either **directly** from Optotrust concentrate **or indirectly** from previously prepared Optotrust replenisher.

#### MIXING OF WORKING SOLUTION: INDIRECT FROM REPLENISHER

Water	Starter REF 13810	Optotrust Replenisher	Working solution
 260 ml	 20 ml	 720 ml	 1 L
<i>or</i>			

#### MIXING OF WORKING SOLUTION: DIRECT FROM CONCENTRATE

Water	Starter REF 13810	Optotrust concentrate	Working solution
 800 ml	 20 ml	 180 ml	 1 L

## MIXING OF WORKING SOLUTION

The preparation of Optotrust Developer working solution requires exact knowledge of the working tank volume. Specified quantities for water, Optotrust Starter and Optotrust **concentrate or** for water, Optotrust Starter and Optotrust **replenisher**, given for 1 litre working solution, must be multiplied with the capacity of the respective developer working tank.

**Mixing directly from Optotrust concentrate:** Pour the calculated quantities of water and Optotrust Starter into the empty developer working tank and then top up with Optotrust concentrate. The mixing is carried out by the circulation pump of the working tank.

*or*

**Mixing indirectly from Optotrust replenisher:** Initially prepare Optotrust replenisher in a mixing vessel or in other suitable container. Start filling the calculated amounts of water and Optotrust Starter into the empty working tank and then top up with the previously prepared Optotrust replenisher. The mixing is carried out by the circulation pump of the working tank. Add excessive replenisher to the replenisher tank.

## PROCESSING PARAMETERS

**REPLENISHMENT RATE:** 300-325 ml/m<sup>2</sup> resp. 16-18 ml/135-36

**TIME:** 4-6 minutes      **TEMPERATURE:** 22-24°C

The data given are guide values and starting points for determining individual processing parameters - longer times and higher temperatures are possible. In order to maintain the fabricatory fine grain of the film emulsions, a temperature of more than 26°C should not be exceeded, unless intended for technical reason or special application.

In contrary to film development in small tanks and spiral tanks - by using special developers and individual times for different film types - commercial processing with machines is often performed differently by processing any films with one and the same time, exploiting the development latitude of the developer.

To achieve better a differentiation and to optimise development, it is nevertheless advisable to categorise films and divide them into 2 or 3 groups, each with the same development time.

## 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 should include safety goggles or face shield, protective gloves and a lab coat or apron.

## STORAGE

Optotrust concentrate should be stored dry, frost-proof and out of the reach of children. The maximum temperature range is between 5°C and 25°C. Storage temperatures between 10°C and 20°C are ideal.

## SHELF LIFE

Optotrust Developer concentrate in unopened, originally sealed containers has a shelf life of approx. 2 years - Optotrust Starter has a shelf life of 4-5 years.

## DISPOSAL

Photographic chemicals - concentrates or used baths - must not be discharged into the public sewer system. These chemicals must be discarded by commercial waste treatment companies, who properly dispose of in accordance with legal regulations. Further information can be found in the safety data sheet.