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PRODUCT INFORMATION

Optoprint RT

B&W Paper Developer for machines

Optoprint RT developer is designed for machine processing of gradation-variable B&W papers in roller transport and continuous feed machines. The modern 1-part formula enables safe and flexible application in a wide range of possible temperature-time combinations.
Optoprint RT works brilliantly, it delivers clean whites and deep blacks, the developer is characterised by high process stability, easy handling and economic efficiency.

Optoprint RT 5 L conc. for 25 L replenisher / for approx. 100 -166 m² REF 13830
A Starter is not required - working solution and replenisher are identical.

STORAGE

Optoprint RT 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.

MIXING OF REPLENISHER

Water > 25 °C		**Optoprint RT conc.**		**Replenisher**
	+		=	
800 ml **20 L**		200 ml **5 L**		1 L **25 L**

MIXING OF WORKING SOLUTION

Working solution = replenisher

TIMES & TEMPERATURES FOR PE/RC PAPERS

Standard: 30°C - 25-30 s
High Speed: 40°C - 15-20 s
Low Speed: 20°C - 50-60 s

TIME & TEMPERATURE FOR FIBRE BASE PAPER

Standard: 20°C - 80-90 s

Times and temperatures given, are guide values and serve as starting points for determining your own individual parameters, which may vary depending on machine type, utilisation and paper used.

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REPLENISHMENT

Optoprint RT enables a flexible adaptation of replenishment to the respective machine utilisation. The standard setting is 200 ml/m². With high utilisation, the replenishment rate can be reduced to 150 ml/m² - with low utilisation, the replenishment rast must be set to at least 250 ml/m².
For fibre base paper the recommended replenishment rate is 250 ml/m².

Normal utilisation 200 ml/m²

Low utilisation: ≥ 250 ml/m²

High utilisation: 150 ml/m²

Normal utilisation exists, when the developer working tank is replaced with replenisher once within 2 weeks. This corresponds to a throughput of approx. 3 m² of paper per litre of working solution per week at a replenishment rate of 200 ml/m².

APPLICATION IN ILFORD PROCESSOR 2150 RC

The Ilford table top processor 2150 RC is designed for laboratories with low workload. The unit is not equipped with an automatic replenishment system for Developer and Fixer, but applies an unreplenished process system where the chemicals are used to exhaustion and then mixed freshly.

RECOMMENDED PRODUCTS

Optoprint RT Developer	5 L conc. for 23 L working solution	REF 13830
Optofix Rapid Fixer	5 L conc. for 23 L working solution	REF 13850

For information on use of the Fixer please see the corresponding Product Information on Optofix Rapid Fixer. Please visit Calbe Chemie website for details.

MIXING OF WORKING SOLUTION

Water > 25 °C		**Optoprint RT conc.**		**Working solution**
	+		=	
750 ml **10.5 L**		250 ml **3.5 L**		1 L **14 L**

Automatic mixing:
- Pour in 3.5 L Optoprint RT concentrate
- Top up water tank
- Press button „water fill“
- Working solution is mixed automatically

CAPACITY

Approx. 40—50 m² paper. Maximum service life: 2 weeks

TIME · TEMPERATURE

Time: 15-20 s Temperature: 35°C

CEANING

Once the capacity limit has been reached, or after a maximum service life of 14 days, the working solutions should be drained and disposed of. The working tanks are to be rinsed and cleaned with water before fresh solutions are mixed.

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.

SHELF LIFE

Optoprint RT concentrates in unopened, originally sealed bottles and canisters have a shelf life of approx. 2 years. Replenisher in closed storage tanks has a shelf life of approx. 3-4 weeks. Only prepare as much replenisher as will be used in approx. 1-2 weeks.

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 treat and dispose of in accordance with legal regulations. Further information can be found in the safety data sheet.

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