

# Using KODAK EKTACOLOR PRIME LORR Minilab Chemicals



The processing chemicals that you use in a particular minilab system depend on the type of processor the system incorporates and its process cycle. This publication describes the use of KODAK EKTACOLOR PRIME LORR chemicals for processing EKTACOLOR EDGE & ROYAL papers in minilabs with the standard RA minilab cycle. This range of single part chemicals provides consistent high quality results combined with convenient solution mixing. They also provide reduced replenishment rates that minimize process effluent and packaging waste.

This publication, CIS-220E, specifically describes the products for Europe, the Middle East, and Africa; the alternate publication, CIS-220, describes the products available in the United States, Canada, and parts of Latin America.

The product range is:

- KODAK EKTACOLOR PRIME SP Developer Replenisher LORR
- KODAK EKTACOLOR PRIME SP Bleach-Fix Replenisher LORR
- KODAK EKTACOLOR PRIME Stabilizer and Replenisher LORR

Additionally the following starters are required for the preparation of fresh working tank solutions:

- KODAK EKTACOLOR RA Developer Starter
- KODAK EKTACOLOR PRIME SP Bleach Fix starter

KODAK EKTACOLOR PRIME LORR Chemicals are intended for customers who have an average- to high-volume operation and can benefit most from the product features.

## CHOOSING THE RIGHT CHEMICALS FOR YOUR MINILAB

PRIME LORR Chemicals are designed for minilabs with the time and temperature specifications in the following table. See Kodak Publication Z-130, Section 3, Process RA-4: *Using KODAK EKTACOLOR PRIME Chemicals in Minilabs*, for more details.

Solution/Step	Time sec	Temperature °C (°F)	PRIME LORR Starting-Point Replenishment Rate mL/m <sup>2</sup>
Developer	45	37.8 ± 0.3 (100.0 ± 0.5)	80
Bleach-Fix	45	30 to 36 (86 to 97)	54
Stabilizer	90	30 to 37 (86 to 99)	4-Tanks 195 3-Tanks 390

The replenishment rates are starting point recommendations for KODAK EKTACOLOR EDGE and ROYAL Papers. If you are processing KODAK PROFESSIONAL SUPRA ENDURA VC Digital Paper, you may need to increase the developer replenishment rate by 10 percent to maintain process control aims.

The table below can help you determine the right choice for your operation. It shows which developer to choose based on the developer-tank volume and the number of 10.2 x 15.2 cm (4 x 6-inch) prints typically processed in a day. After choosing the developer, select the bleach-fix and stabilizer recommended for use with that developer. During periods of low utilization, you may need to increase the replenishment rate by 10 to 15 percent.

		Prints per day								
		125	250	375	500	750	1000	1250	1875	2500
tank volume litres	5									
	10									
	15		*							
	20	+		*						
	25	+		*	*					
	30	+	+		*					
	40	+	+			*				
	50	+	+	+		*				

- EKTACOLOR PRIME SP Developer Replenisher LORR
- EKTACOLOR Developer Replenisher RT / LU
- \* Periods of low utilisation may require a slight increase in replenishment rate
- + Not recommended

**Note:** If your lab prints 8.9 x 12.7 cm (3.5 x 5-inch) prints, multiply the number of prints you make each day by 0.73 to find the equivalent number of 10.2 x 15.2 cm (4 x 6-inch) prints. Use that number to select your developer.

If you have identified EKTACOLOR PRIME SP Developer Replenisher LORR (for average- to high-production volume), use these chemicals:

- KODAK EKTACOLOR PRIME SP Developer Replenisher LORR
- KODAK EKTACOLOR PRIME SP Bleach-Fix Replenisher LORR
- KODAK EKTACOLOR PRIME Stabilizer and Replenisher LORR

If you have identified EKTACOLOR Developer Replenisher RT / LU (for low-production volume), use the following chemicals:

- KODAK EKTACOLOR Developer Replenisher RT/LU CAT 529 2396
- KODAK EKTACOLOR Bleach-Fix and Replenisher RT/LU CAT 529 2404
- KODAK EKTACOLOR PRIME Stabilizer and Replenisher LORR\*

\***Note:** Use the stabilizer at a replenishment rate of 248 mL/m<sup>2</sup> (4 tanks) or 495 mL/m<sup>2</sup> (3 tanks).

Further information and guidance on managing low production volume conditions can be found in the technical publication CIS-246E, "Operating Minilabs at low levels of utilization: C41 & RA4" which is available on the Kodak web site at [www.kodak.com/go/photochemicals](http://www.kodak.com/go/photochemicals) in the section on Technical Resources.

## ORDERING EKTACOLOR PRIME LORR CHEMICALS

EKTACOLOR PRIME LORR Chemicals are available in convenient mix sizes. The catalogue numbers in the table are for Europe, the Middle East, and Africa.

The table below shows the product details and the number of 10.2 x 15.2 cm (4 x 6-inch) prints that can be processed.

Product	CAT No.	Makes	Prints
KODAK EKTACOLOR PRIME SP Developer Replenisher LORR	680 1278	4 x 10 L	32,250
KODAK EKTACOLOR PRIME Bleach-Fix Replenisher LORR	528 8105 (680 1286 for Russia only)	2 x 10 L	23,880
KODAK EKTACOLOR PRIME Stabilizer and Replenisher LORR	680 1294	10 x 10 L One dispenser bottle. Dispense liquid to 2 x A mark to prepare 10 L	33,070
EKTACOLOR RA Developer Starter	660 1090	1 x 1.2L one bottle will make 26.7 L fresh tank	—
EKTACOLOR PRIME SP Bleach-Fix Starter	660 1058 (680 1690 for Russia only)	1 x 1.2L one bottle will make 24 L fresh tank	—

## SAFE HANDLING OF PHOTOGRAPHIC CHEMICALS

Handle all chemicals carefully. When you mix solutions, wear goggles or a face shield, a protective rubber apron, and protective gloves made with neoprene or nitrile rubber. Clean protective clothing after use to remove any chemical residue that can cause contamination. For more information about potential health hazards and safe handling of specific Kodak chemicals, see the label and the Material Safety Data Sheet (MSDS) for the chemical. Consult the MSDS for regional contact information. MSDS copies are available at the Kodak website at

[www.Kodak.com/go/photochemicals](http://www.Kodak.com/go/photochemicals).

## MANAGING EMPTY CONTAINERS

In most regions, it should be possible to participate in a local community recycling program. Check with program authorities to determine if these bottles are eligible for local recycling. Information on preparing Kodak photochemical containers for recycling & other publications on waste management are available on the Kodak website at

[www.Kodak.com/go/KES](http://www.Kodak.com/go/KES).

## SILVER RECOVERY

Publications on silver management that include recommendations and descriptions of silver-recovery options are available in the Silver Management section of the Kodak Environmental Services Publications Center at

[www.Kodak.com/go/KES](http://www.Kodak.com/go/KES).

## PREPARING FRESH TANK SOLUTIONS

### Developer Fresh Tank Solution

To ensure good performance, take special care in mixing the developer tank solution. You should mix the developer replenisher in a separate mixing vessel from the one used for bleach-fix.

	Volume
EKTACOLOR PRIME SP Developer LORR, mixed Replenisher*	500ml
EKTACOLOR RA Developer Starter (CAT No 6601090)	45mL
Water	455mL
Total volume	1.0 L

\* Mixed as directed on the product label

### Bleach-Fix Fresh Tank Solution

Be very careful to avoid contamination of the developer with bleach-fix.

	Volume
EKTACOLOR PRIME SP Bleach Fix LORR, mixed Replenisher*	950ml
EKTACOLOR PRIME SP Bleach-Fix Starter (CAT No. 6601058)	50mL
Total volume	1.0 L

\* Mixed as directed on the product label

### Stabiliser Fresh Tank Solution

To prepare one litre of stabilizer tank solution, use mixed EKTACOLOR PRIME Stabilizer and Replenisher LORR with no further dilution.

### Adjusting Replenishment Rates

At the time you convert to EKTACOLOR PRIME LORR Chemicals, you will need to ensure your replenishment rates are set to those given in the table below. We have included replenishment-rate adjustment procedures for several minilab models. If your equipment is not listed, check the processor manual or contact the equipment manufacturer for their recommendations.

**Important:** If your equipment allows you to back up printer and paper processor data on a floppy disc or memory card, make sure you update your backup software after adjusting the replenishment rates. Otherwise, any future data transfer from your backup memory will revert to the previous replenishment rates and may cause incorrect replenishment.

**Note:** The replenishment rates given are starting point recommendations for KODAK EKTACOLOR EDGE and ROYAL Papers. If you are processing KODAK PROFESSIONAL SUPRA ENDURA VC Digital Paper, you may need to increase the developer replenishment rate by 10 percent.

## Replenishment Rates for EKTACOLOR PRIME LORR Chemicals

Solution	mL/m* x 127 mm	mL/ft* x 127 mm	mL/m <sup>2</sup>	mL/ft <sup>2</sup>
PRIME SP Developer LORR	10.2	3.2	80	7.5
PRIME SP Bleach-Fix LORR	6.9	2.1	54	5
PRIME Stabilizer LORR (4 tanks)	25	7.5	195	18
PRIME Stabilizer LORR (3 tanks)	49	15	390	36

\*mL per linear metre or foot

## NORITSU Minilabs (2900, 3100 Series)

1. From the main menu screen select "F."
2. Highlight "Extension." Press <YES>.
3. Enter your password if required, then press <YES>.
4. Highlight "Process Specification" or "Processor Settings" and press < YES>.
5. Move cursor to "Basic Replenisher Amount" or "Standard Replenishment Amount Settings."
6. Enter the correct replenishment rates for each chemical (developer, bleach-fix, stabilizer).  
Press < YES> to accept the replenishment rates. Exit, and then return to this screen to make sure you have entered the correct replenishment rates.

## NORITSU Minilabs (2100, 2200, 2300, 2600, 2700 Series)

1. From the main menu screen highlight "Extension" (if you see "Extension 1" and "Extension 2," highlight "Extension 2"). Press <YES>.
2. Enter your password if required, then press <YES>.
3. Highlight "Process Specification" and press < YES>.
4. Move cursor to "Basic Replenisher Amount."
5. Enter the correct replenishment rates for each chemical (developer, bleach-fix, stabilizer).  
Press < YES> to accept the replenishment rates. Exit, and then return to this screen to make sure you have entered the correct replenishment rates.

## NORITSU Minilabs (1001, 1201, 1701 Series)

1. Press <Mode> key.
2. Press <Paper> key (bottom row).
3. Press <D-IN> key.
4. Highlight the <NO> key until the "CD Basic Repl" screen appears.
5. Enter the new replenishment rate by using the number keys located on the bottom row.
6. Press < YES> key.
7. Press <NO> and the next screen, BF Basic Repl, will appear. Enter the new bleach-fix replenishment rate.
8. Press the < YES> key.
9. Press the <NO> key to go to the next screen, Stb Basic Repl. Enter the new stabilizer replenishment rate.
10. Review each screen to make sure you have entered the correct replenishment rates.

## GRETAG Master Lab

1. To set the developer replenishment rate, press <SET>, enter your password, press <P-Proc>, press <REPRATE>.
2. Enter the correct replenishment rate for the developer. For GRETAG Master Labs, this will be 80 mL/m<sup>2</sup>.
3. Press <ENTER>.
4. To change the bleach-fix and stabilizer replenishment rates, press the following: <MAINT>, enter your password, <P. PROC>, <LIQUID>, <CALPUMP>.
5. Enter the bleach-fix <BLEACH> (55) and stabilizer <STAB> (390 for 3 countercurrent tanks) replenishment rates.
6. Measure and adjust the replenishment pump outputs to complete the rate change. Place one graduated cylinder for each replenisher on the frame of the paper processor. Put the replenisher tubes for each solution in the graduated cylinder.
7. Select <COMM>, <P.PROC>, <MANREPL>, <TEST>.
8. Check the volume in each graduated cylinder and compare them to the numbers that appear on this screen. If the volumes that the replenisher pumps deliver are different from the amounts on the screen, adjust the replenisher pumps to obtain the correct replenishment rates. Turn the adjustment screw on each pump to adjust the output—clockwise to increase the volume delivered or counterclockwise to reduce the volume.

## FUJI SFA Series

1. Go to the “Processor Condition Settings” screen by pressing <5> <2> <START/YES>.
2. Press <2>, <START/YES> to get to the “Replenishment Rate Setting” (522) screen.
3. Using the arrow keys, move the cursor to the “Repl. Rate” column.
4. Set the replenishment rates by using the number keys.
5. Move the cursor to “Enter?” and select “Yes,” and press the <START/YES> key.

Depending on the standard replenishment rate setting you programmed, you may be unable to reduce your replenishment rates to the lower amounts required for EKTACOLOR PRIME LORR Chemicals. If your processor will not accept the low replenishment rates, change the default setting to a different standard replenishment rate.

To change the default setting:

1. On the main menu, press <SORT>, <1>, <7>, <MENU>, <7>, <7>, and <START/YES>.
2. On the “Installation Date Setting” screen, change the Process Code from 4 (CP40) to 1 (CP43). Highlight “1” with the arrow keys and press <START/YES>.

Then enter the lower replenishment rates.

Digital & Film Imaging Systems  
**EASTMAN KODAK COMPANY • ROCHESTER, NY 14650**