

RA-4 Print Chemicals: VLR systems

NATURECARE SP47 Print Developer Replenisher is a clear, homogeneous, single part P1/print developer concentrate designed for Very Low Replenishment rate (VLR) processing systems. With a replenishment rate of 45 mls/m² at 38.5 °C this product can be used as a drop-in replacement for Fuji CP47L P1-R at the same time, temperature and replenishment rate.

NATURECARE SP47 Bleach-Fix Replenisher is the companion product to NatureCare SP47 Print Developer Replenisher and it too is a homogeneous, single part P2/print bleach-fix concentrate designed for Very Low Replenishment rate (VLR) processing systems. Having a replenishment rate of 35 mls/m² at 38.0°C it makes the ideal companion as a drop-in replacement for Fuji CP47L P2-R as well.

The advantages of single part technology are clear - it's easy to use - just add water, and, with fewer parts to mix together there is less chance of mixing errors, as well as saving time in the mixing process and potentially reducing packaging waste.



P1 NatureCare SP47 Print Developer Replenisher

- Single Part (SP) homogeneous, clear developer replenisher which is easy to use - just mix well. No parts to mix together-reduces chances of mixing errors and mixing time with less packaging waste
- Replenishment rate of 45 mls/m² at 38.5°C
- Clean formulation significantly reduces 3 types of developer dirt:
 1. Developer Creep (oxidized developer agent on crossover rollers/racks)
 2. Tar-like suspended oxidized compounds in the developer solution that stick to rollers and racks
 3. Cement-like calcified salts, caused by local hard water and paper hardening agent, which fall to the bottom of the tank
- Outperforms Trebla Triphase* and is equivalent to Kodak Ektacolor Prime* SP in developer creep tests
- Easy drop-in replacement on top of existing chemistry
- NatureCare SP 47 Developer Replenisher is a drop-in replacement for Fuji CP47L P1-R* at the same times, temperatures and replenishment rates
- Good shelf life

P2 NatureCare SP47 Bleach-Fix Replenisher

- Single Part (SP) homogeneous, bleach-fix which is easy to use - just mix well. No parts to mix together-reduces chances of mixing errors and mixing time with less packaging waste.
- Replenishment rate of 35 mls/m² works well in high volume processors or specially designed processors which minimize oxidation.
- Single part formulation is considered non-hazardous for shipping purposes.

P3 Mydoprint Rinse

- Single part rinse

PROCESS SPECIFICATIONS

*recommended starting point

**depends upon on # of wash tanks used

Step	Processing Stage	Processing Time (Sec)	Recommended Temp °C	Replenishment Rate (mls/sq.m)	Preparation of Working Solution (1L)
P1	NatureCare SP 47 Print Developer	45	38.5±0.3°C	45*	1) 300mls Developer Replenisher 2) 600mls water 3) 100mls Starter
P2	NatureCare SP 47 Bleach-Fix Replenisher	45+	38±3.0°C	35*	500mls water 500mls Replenisher
P3	Mydoprint Plus Rinse	90-210	35.0±3.0°C	250**	Same as Replenisher

CHEMISTRY SPECIFICATIONS

	P1 NatureCare SP 47 Print Developer Replenisher		P2 NatureCare SP 47 Bleach-Fix Replenisher	
	Seasoned Tank	Replenisher Tank	Seasoned Tank	Replenisher Tank
pH	10.40±0.10	12.50±0.10	7.25±0.25	6.00±0.10
Sp Gr	1.060±0.010	1.060±0.010	1.115±0.010	1.150±0.010

Preparation:

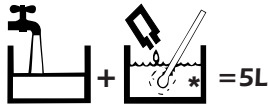
NATURECARE SP 47

Replenisher Solutions

*Mix well

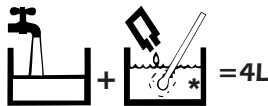
P1 - NatureCare SP 47 Print Developer Replenisher

H₂O 3.5L 1x



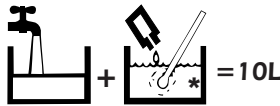
P2 - NatureCare SP 47 Bleach-Fix Replenisher

H₂O 2L 1x



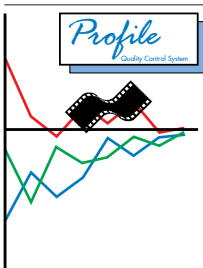
P3 - Mydoprint Plus Rinse

H₂O 10L 50ml



STORAGE OF CHEMICALS:

- Concentrates - All of the processing system concentrates have a normal storage life of at least 12 months, when held in unopened containers under steady temperature conditions in the range 13°-18°C. However, storage temperatures below 5°C should be avoided as some crystallization may occur.
- Working Solutions and Replenishers - Machine tank solutions should not be allowed to stand unused for more than one week, or the activity will be reduced by aerial oxidation. No more than one week's supply of any of the replenisher solutions should be made up at a time. Replenisher solutions should be kept covered with lids to reduce evaporation, oxidation and contamination.
- Safe Use of Processing Chemicals - All chemicals should be kept out of reach of children. Refer to labels on the box and to the Safety Data Sheet for precautionary information. Protective clothing, including gloves and face/eye protection should always be worn when handling chemicals. Contact our Technical Services Department or your local representative to determine which combination of chemicals is best suited for your use.



The Profile Quality Control System is comprised of two key elements - Profile Control Strips and Profile Quality Control Software. Profile Control Strips are easy to work with and have been optimized to give the best results with Champion Photochemistry & Russell Photochemistry. Profile Quality Control Software has been manufactured under strict quality control procedures.

Champion Photochemistry and Russell Photochemistry are the only independent chemical manufacturers worldwide to make control strips and to market a Q.C. software.

The Profile Quality Control System offers the following

features & benefits:

- Extremely user-friendly
- Outstanding diagnostic components
- Full colour clothesline plot reports
- Full data on history, current status and diagnosis
- Early detection of potential process problems
- Recommendations for corrective action plans
- Full technical support available
- Updates to software sent automatically to current registered users
- New email feature allows labs to email files to your central site for timely evaluation

* Kodak Ektacolor Prime is a registered trademark of the Eastman Kodak Company; Trebla Triphase is a registered trademark of CPAC, Inc.; Fuji CP47 is a registered trademark of Fuji Photo Film Ltd.

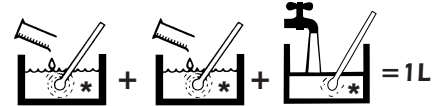
RA-4 Print Chemicals: VLR systems

FOR
PAPER

Tank Solutions: Developer & Bleach-Fix

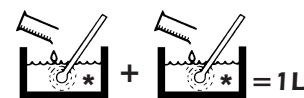
P2 - NatureCare SP 47 Print Developer

Replenisher 300mls NatureCare CP 47 Dev Starter 100mls H₂O 600mls



P2 - NatureCare SP 47 Bleach-Fix

Replenisher 500mls H₂O 500mls



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For P3, Mydoprint Rinse, preparation of the working solution is same as for the Replenisher
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SUPPLIES

	To make	Product Code
P1 NatureCare SP 47 Print Dev Replenisher	6x5L	140161
P2 NatureCare SP 47 Bleach-Fix Replenisher	2x4L	140505
P3 Mydoprint Rinse	2x10x10L	141012
P3 Mydoprint Rinse	6x100L	141013
P1-S NatureCare CP 47 Dev Starter	2.5L	140408
Profile RA-4 Paper Control Strips	20 strips	141505

For a complete list of the C-41 chemicals which complement this system of RA-4 chemistry, please refer to TDS # F1 & F3.

WARRANTY: Seller, Champion Photochemistry Limited, expressly disclaims any and all warranties, express or implied, including any warranties of merchantability or fitness. Seller's sole obligation for defect is to replace the defective product. In no event shall seller have any liability for incidental or consequential damages.

Manufactured By

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