

## RA-4 Print Chemicals: Standard Systems

**PRIMAPRINT SP VR DEVELOPER REPLENISHER** is a clear, homogeneous, single part P1 developer concentrate designed for Standard systems. With a replenishment rate of 108mls/m<sup>2</sup> at 38°C or 160mls/m<sup>2</sup> at 35°C. This product can be used as a drop-in replacement for not only Kodak Ektacolor PRIME\*\*\* Developer Replenisher but many other similar rep. rate P1 developers at the same times, temperatures and replenishment rates.

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

### P1 Primaprint SP VR Developer Replenisher

- Single Part (SP) homogeneous, clear developer which is easy to use-just mix with water. No parts to mix together-reduces chances of mixing errors and mixing time with less packaging waste.
- Replenishment rate of 108mls/m<sup>2</sup> at 38°C or 160mls/m<sup>2</sup> at 35°C.
- Special chelates allows SP to stay in solution even in hard water areas. No hard-to-clean deposits in working/replenisher tanks.
- Variable rate (VR) replenisher operates in a wide variety of processors at various temperatures.
- 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.
- FRESH AIR INCLUDED- no fishy/amine smell in most instances.
- Easy drop-in replacement on top of existing chemistry.
- Extended shelf life- minimum 1 year from the date of manufacture in unopened container.

### P2 Mydoprint SPV Bleach-Fix Replenisher/Mydoprint Professional Bleach Fix Replenisher

- Single part (SP) homogeneous, clear bleach-fix which is easy to use - just mix with water. No parts to mix together-reduces chances of mixing errors and mixing time with less packaging waste.
- Variable replenishment rate universal bleach-fix can be adjusted to a lab's specific workload conditions and eliminates the need to carry several products.
- Single Part formulation is considered non-hazardous for shipping purposes.

### P3 Mydoprint Rinse

- Single Part rinse works well with most RA-4 chemistry.

### PROCESS SPECIFICATION

Step	Processing Stage	Processing time (Sec)	*recommended starting point	
			Temperature	Replenishment Rate
P1	Primaprint SP VR Developer Replenisher (Fresh Air Included)	46 ± 2	35.0±0.3°C	160±mls/m <sup>2</sup> *
		46 ± 2	38.0±0.3°C	108±mls/m <sup>2</sup> *
P2	Mydoprint SPV Bleach-Fix & Replenisher	74 ± 30	36.5 ± 3.0°C	108± mls/m <sup>2</sup> *
			38.0 ± 3.0°C	210 ±mls/m <sup>2</sup> *
P3	Mydoprint Rinse	148 ± 62	35.0 ± 3.0°C	250**±mls/m <sup>2</sup>
Or:	Wash Water	148 ± 62	35.0 ± 3.0°C	10 ± L/m <sup>2</sup> *

### CHEMISTRY SPECIFICATIONS

STD-Standard Rep Rate (210mls/m<sup>2</sup>)  
MR - Medium Rep Rate (108mls/m<sup>2</sup>)  
NA - Not applicable

	P1 Primaprint SP VR Developer Replenisher		P2 Mydoprint SPV Bleach-Fix /Replenisher		Mydoprint Professional Bleach Fix Replenisher	
	Seasoned Tank	Replenisher Tank	Seasoned Tank		Replenisher Tank	
PH	<b>35°C</b>	<b>35°C</b>	STD (210mls/m <sup>2</sup> )	MR(108mls/m <sup>2</sup> )	STD (210mls/m <sup>2</sup> )	MR (108mls/m <sup>2</sup> )
	10.1 ± 0.10	12.30 ± 0.10	6.60 ± 0.10	--	5.97 ± 0.10	5.93 ± 0.10
	<b>38°C</b>	<b>38°C</b>	--	7.00 ± 0.10	5.97 ± 0.10	5.93 ± 0.10
Sp Gr	<b>35°C</b>	<b>35°C</b>	1.076 ± 0.010	--	1.065 ± 0.010	1.086 ± 0.010
	1.02 ± 0.010	1.013 ± 0.010	--	1.090 ± 0.010	1.065 ± 0.010	1.086 ± 0.010
	<b>38°C</b>	<b>38°C</b>	--	1.090 ± 0.010	1.065 ± 0.010	1.086 ± 0.010
	1.02 ± 0.010	1.013 ± 0.010	--	1.090 ± 0.010	1.065 ± 0.010	1.086 ± 0.010

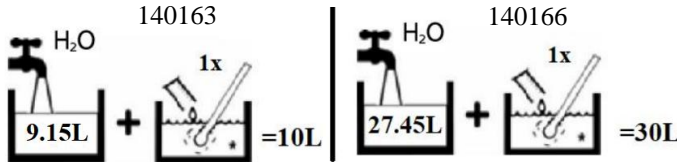
**Preparation :**

**PRIMAPRINT SP**

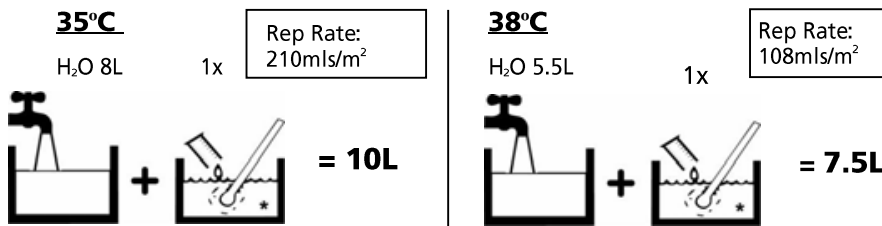
**Replenisher Solutions**

\*Mix well

**P1 – Primaprint SP VR Developer Replenisher**

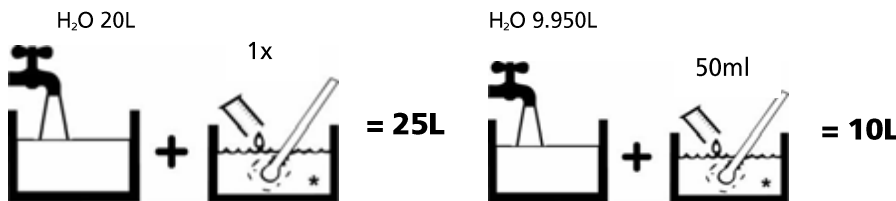


**P2 – Mydoprint SPV Bleach-Fix & Replenisher**



**P2 – Mydoprint Professional Bleach-Fix Replenisher**

**P3 – Mydoprint Rinse**



**Working Solutions: Developer**

**P1 – Primaprint SP VR Developer**

**35°C**

Replenisher Concentrate	RA Print Dev Starter	H <sub>2</sub> O
80mls	35mls	885mls



**38°C**

Replenisher Concentrate	RA Print Dev Starter	H <sub>2</sub> O
80mls	40mls	880mls



For P2, Mydoprint SPV Bleach Fix & Replenisher, P2 Mydoprint Professional Bleach Fix Replenisher and P3, Mydoprint Rinse, preparation of the working solution is same as the Replenisher

**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 13°-18°C (56°F-66°F). However, storage temperature below 5°C(41.5°F) 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 Material Safety Data Sheet for precautionary information. Protective clothing, including gloves and face/eye protection should always be worn when handling chemicals.

Contact our Service Plus Department or your local representative to determine which combination of chemicals is best suited for you.

\*\*\* Kodak Ektacolor Prime is a registered trademark of the Eastman Kodak Company

**SUPPLIES**

		To make	Product Code
P1	Primaprint SP VR Developer Replenisher	6x10L	140163
P1	Primaprint SP VR Developer Replenisher	2x30L	140166
P2	Mydoprint SPV Bleach Fix & Replensihier	4x10L/7.5L	140558
P2	Mydoprint Professional Bleach Fix Replenisher	2x25L	140562
P3	Mydoprint Rinse	2x200L	141006
P1-S	Universal Paper Starter	Variable	140411

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

**WARRANTY:** Seller, Champion Photochemistry, expressly disclaims any & 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 in Malaysia By:

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