

RA-4 Print Chemicals:Low Replenishment System

Champion Photochemistry's Naturecare SP-60 Developer/Replenisher is a Single Part, high stability developer designed to cope with all processing environments and paper. With a replenishment rate of 60mls/m² at 38°C this product is an ideal drop in to replacement for any competitor 60ml Developer offering.

P1 Naturecare SP-60 Developer / Replenisher

- Easy to mix single part developer, ideally suited for manual, Rockwell or equivalent mixers.
- Replenishment rate 60mls/m² @38°C
- Special chelates for hard water areas, No hard-to-clean deposits in Developer / Replenisher tanks.
- Developer Creep (oxidized developer agent on crossover rollers/racks).
 1. Clean formulation significantly reduces 3 types of developer dirt:
 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.
- Easy drop-in replacement on top of existing chemistry.
- FRESH AIR INCLUDED - no fishy/amine smell in most instances.
- Extended shelf life -minimum 1 year from the date of manufacture in unopened container.

P2 Naturecare SNR 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 risk of mixing errors and mixing time with less packaging waste.
- High antioxidant concentration, gives excellent longevity in the working strength Developer and Replenisher tank.
- Reduced effluent to drain at running 54mls sqm.
- 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

*recommended starting point

Step	Processing Stage	Processing time (Sec)	Temperature	Replenishment Rate*
P1	Naturecare SP-60 Developer & Replenisher	45	38.0±0.3°C	60mls/m ²
P2	Naturecare SNR Bleach Fix & Replenisher	45	35.0±1.0°C	54mls/m ²
P3	Mydoprint Rinse	220	35.0±3.0°C	250-350mls/m ²

Note:

60ml Replenishment requires at least a 30-40% tank turnover weekly to maintain a stable process.

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CHEMISTRY SPECIFICATIONS

	P1 Naturecare SP-60 Developer & Replenisher		P2 NatureCare SNR Bleach-Fix & Replenisher	
	Seasoned Tank	Replenisher Tank	Seasoned Tank	Replenisher Tank
PH	9.90 - 10.20	12.15 - 12.3	7.3 ± 0.10	5.88 ± 0.10
SG	1.035 ± 0.01	1.039 ± 0.010	1.097 ± 0.010	1.104 ± 0.010

Preparation:

NatureCare SP-60 Developer / Replenisher

<u>Replenisher Solution</u>	<u>Working Tank Solution Preparation</u>
<p>H₂O 8.5L + 1x = 10L</p>	<p>H₂O 850ml + Concentrate 100ml + RA Print Dev Starter 50ml = 1L</p>

NatureCare SNR Bleach-Fix / Replenisher

<u>Replenisher Solution</u>	<u>Working Tank Solution Preparation</u>
<p>H₂O 6L + 1x = 10L</p>	<p>H₂O 0.723L + Bleach-Fix Concentrate 277ml = 1L</p>

Mydoprint Rinse / Replenisher

<u>Replenisher Solutions</u>	<u>Working Tank Solution Preparation</u>
<p>Water 9.95L + 50ml = 10L</p>	<p>For P3, Mydoprint Rinse, preparation of the tank solution is same as the Replenisher.</p>

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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°C-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 Replenisher -**

Machine tank solutions should not be allowed to stand unused for more than one week, or the activity will be reduced by aerial oxidation. It is recommended that no more than one week's supply of any of the replenisher solutions should be made up at a time.

- **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 representatives to determine which combination of chemicals is best suited for you.

SUPPLIES

P1	Naturecare SP-60 Developer & Replenisher	6x10L	140174
P2	NatureCare SNR Bleach-Fix & Replenisher	4x10L	140561
P3	Mydoprint Rinse	2x200L	141006
P1-S	Universal Starter Starter	Variable	140411

WARRANTY:

Seller, Champion Photochemistry, 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:-

CHAMPION PHOTOCHEMISTRY

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