

Finishing

Process C-41

Tetenal offers three different types of colour developers for the C-41 film process. Selection should be made with respect to the utilization of the processor. The standard developer has a replenishment rate of 45 ml per meter of 35 mm film, the Low Rate developer has 23 ml per metre and the Super Low Rate developer only 15 ml. Labs with a good utilization of the processor and also a high quantity of films are offered also recycling the colour developer. Bromide concentration is reduced in the collected overflow by passing it through an ion-exchange column. The replenisher is prepared by adding three regenerator concentrates.

Filmbleach Iii is a PDTA based bleach, bleach MP is made from a mixture of complexing agents to improve the biodegradation. Both bleaches are easy to recycle. The concentrates offer both options: mixing fresh replenisher or regeneration of the overflow

Fixer and fixer replenisher are mixed from the FX-R concentrate. The electrolytically desilvered overflow is reconstituted to a replenisher by the fixer regenerator.

The stabilizer contains surfactants to provide a even and stainless drying. It does not contain hardeners like Formaldehyde.

Code / Abbreviation

CD Color Developer	BL Bleach
CD-R Color Developer Replenisher	BL-R Bleach Replenisher
CD-RCY Color Developer Regenerator	BL-RCY Bleach Regenerator
CD-S Color Developer Starter	BL-S Bleach Starter
SP Single Part Product	
SP 80 Single Part Product, Repl. rate 80 ml/m ²	FX Fixer
MR Medium Rate, reduced Repl. rate	FX-R Fixer Replenisher
LR Low Rate, low Repl. rate	FX-RCY Fixer Regenerator
SLR Super Low Rate, very low Repl. rate	
	Stab Stabilizer
	WL Washless Processing

Process C-4

Processing baths	Code	Time [min, sec]	Temp. [°C]	Repl.-rate [ml/m ²]	Agitation
Color developer	CD	3'15''	37,8 ± 0,15	1280 ml/m ²	Circulation, Filtration, moistened Nitrogen
Bleach	BL	4'20''	38 ± 3,0	575 ml/m ²	Circulation, oilfree air
Wash		1'05''	38 ± 3,0	30 l/m ²	
Fixer	FX	4'20''	38 ± 3,0	860 ml/m ²	Circulation, oilfree air
Wash		3'15''	24 - 41	60 l/m ²	Circulation, Filtration
Stabilizer	STAB	1'05''	24 - 41	860 ml/m ²	
Drying			max. 45		

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C-41 Color Developer Replenisher

C-41 CD-R Parts: 3, Time: 3'15", Temp.: 37,8°C, Repl.rate 45 ml/lfm

Art. No.			for	
104867	C-41 CD-R	Kit	4 x 10 l	

C-41 Color Developer Replenisher Low Rate

C-41 CD-LR Parts: 2, Time: 3'15", Temp.: 37,8°C, Repl.rate 23 ml/lfm

Art. No.			for	content
102479*	C-41 CD-LR	Kit	2 x 50 l	

C-41 Color Developer Replenisher Super Low Rate

C-41 CD-SLR Parts: 3, Time: 3'15", Temp.: 37°C, Repl.rate 15 ml/lfm

Art. No.			for	content
102452	C-41 CD-SLR, CD-RCY	Part 1	1.200 l	60 l
102465	C-41 CD-SLR, CD-RCY	Part 2	1.500 l	60 l
103132	C-41 CD-SLR	Part 3	910 l	60 l

C-41 Color Developer Regenerator

C-41 CD-RCY Parts: 3, Time: 3'15", Temp.: 38°C, Repl.rate 23 ml/lfm

Art. No.			for	content
102452	C-41 CD-RCY, CD-SLR	Part 1	21.430 l	60 l
102465	C-41 CD-RCY, CD-SLR	Part 2	6.000 l	60 l
102287	C-41 CD-RCY	Part 3	5.000 l	60 l

C-41 Color Developer Starter

Art. No.			for	content
104045	Starter for C-41 CD-R und CD-LR			1 l
		CD-R	Replenisher	Starter
		CD-R	940 ml	20 ml
		CD-LR	140 ml	820 ml
				40 ml
104017	Starter for C-41 CD-SLR			1 l
		CD-SLR	125 ml	850 ml
				25 ml

C-41 Bleach Replenisher and Regenerator

C-41 BL-R Parts: 1, Time: 4'20", Temp.: 33-38°C, Repl.rate 20 ml/lfm

Art. No.			for	content
102332*	C-41 BL-R Ecoline Filmbleach III		180 / 1.500 l	60 l
102338*	C-41 BL-R Ecoline Filmbleach III		600 / 5.000 l	200 l
102288	C-41 BL-R Ecoline Filmbleach MP		230 / 2.000 l	60 l
102280	C-41 BL-R Ecoline Filmbleach MP		770 / 6.667 l	200 l

* discontinued

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C-41 Bleach Starter

C-41 BL-S

Art. No.				content
103333	C-41 BL-S			1 l
		Water	Replenisher	Starter
	Filmbleach III	135 ml	850 ml	15 ml
	Filmbleach MP	135 ml	850 ml	15 ml

C-41 Fixer und Replenisher

C-41 FX-R Parts: 1, Time: 4'20", Temp.: 33-38°C, Repl.rate 30 ml/lfm

Art. No.		for	content
102671	Superfix VR	2 x 20 l	2 x 3 l
105146	C-41 FX-R Unicolor Superfix	300 l	60 l
103053	C-41 FX-R Unicolor Superfix	1000 l	200 l
103350	C-41 FX-R Unicolor Superfix	3200 l	640 l

C-41 Fixer Regenerator

C-41 FX-RCY Parts: 1, Time: 4'20", Temp.: 33-38°C, Repl.rate 30 ml/lfm

Art. No.		for	content
105850	C-41 FX-RCY	1500 x 2400 l	60 l
102427	C-41 FX-RCY	5000 x 8000 l	200 l
105850	C-41 FX-RCY	16000 x 24 00 l	60 l

C-41 Stabilizer and Replenisher

C-41 Stab Parts: 2, Temp.: 33-38°C, Repl.rate 30 ml/lfm

Art. No.		for	content
104358	prof. Stab C-41 / E-6	100 l	1 l
105366	ECN-2 / ECP-2 Stab	1.000 l	10 l
103294	C-41 Stab	6.000 l	60 l
102438	C-41 Stab	20.000 l	200 l

Additives, Control Strips

Art. No.		for	content
102951	Additive CD Long Life	200 l	1 l
418033709	Kodak C-41 Control Strips roll, 35 mm		120 Strips