

## PRODUCT INFORMATION

### C-41 UNI BLEACH Bleach Replenisher *BL-R*

C-41 UNI BLEACH is a universal Bleach concentrate for machine processing of colour negative films in Minilabs compatible with C-41 RA as well as in rack & tank machines, roller transport machines and continuous feed machines (CF) compatible with C-41 PRO.

C-41 UNI BLEACH 5 L REF 13350

C-41 RA: 5 L Ready-to-use replenisher (RTU)

C-41 BL-S 1 L REF 13230

C-41 PRO: 5 L Conc. for 15 L replenisher

Bleach Starter for 40 L / 50 L

When used in minilab film processors for process C-41 RA, the concentrate is used undiluted as a ready-to-use replenisher. When used in rack & tank machines, as well as in roller transport and continuous feed (CF) machines for C-41 PRO, the concentrate is diluted with water to prepare replenisher.

Bleach Starter BL-S is required for the preparation of working solution.

#### MIXING OF REPLENISHER

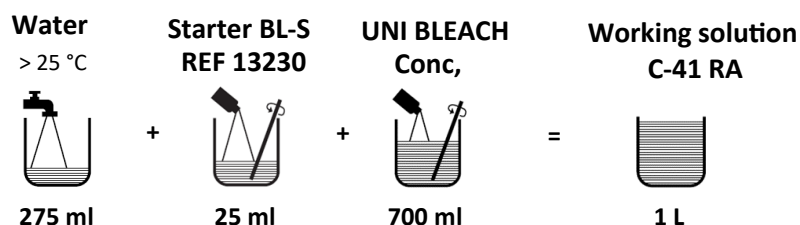
C-41 RA

The solution is ready-to-use, it is filled into the replenisher tank without any dilution.

#### MIXING OF WORKING SOLUTION

C-41 RA

Mixing of working solution is required, when the working tank of the machine is to be refilled newly, e.g. when a machine was installed or after tank cleaning during maintenance work.



The specified quantities for water, BL-S starter and UNI BLEACH concentrate must be multiplied according to the size of the respective Bleach working tank. Ideally mixing should be carried out in an external mixing tank, but it can be performed as well directly in the working tank, provided the working tank volume is exactly known.

Fill the calculated quantities of water, Starter BL-S and UNI BLEACH concentrate into the empty Bleach working tank or mixing vessel, one after the other. Mixing time approx. 1-2 minutes for the finished working solution. Pour the remaining UNI BLEACH concentrate into the replenisher tank.

Warm water promotes fast and good mixing of the individual components.

## PROCESSING PARAMETERS




C-41 RA

**Time:** 45 s    **Temperature:** 35-38°C    **Replenishment rate:** 5 ml/135-24    7,5 ml/Film 120  
 4,4 ml/meter film 135    9,1 ml/meter film 120

Tempered working solutions are subject to a continuous evaporation of water. Accordingly, the evaporation should be compensated by a daily addition of water to the working solution in order to avoid an increase in the concentration. Top up the tank with water up to the overflow level, every day before starting work.





## MIXING OF REPLENISHER

C-41 PRO

Water > 25 °C	UNI BLEACH conc.	Replenisher C-41 Pro
		
666 ml	334 ml	1 L
6,6 L	3,4 L	10 L
<b>10 L</b>	<b>5 L</b>	<b>15 L</b>

## MIXING OF WORKING SOLUTION

C-41 PRO

Water > 25 °C	Starter BL-S REF 13230	UNI BLEACH Replenisher C-41 PRO	Working solution C-41 Pro
			
130 ml	20 ml	850 ml	1 L

The specified quantities for water, BL-S starter and UNI BLEACH concentrate must be multiplied according to the size of the respective Bleach working tank. Ideally mixing should be carried out in an external mixing tank, but it can be performed as well directly in the working tank, provided the working tank volume is exactly known.

Fill the calculated quantities of water, Starter BL-S and UNI BLEACH concentrate into the empty Bleach working tank or mixing vessel, one after the other. Mixing time approx. 1-2 minutes for the finished working solution. Pour the remaining UNI BLEACH concentrate into the replenisher tank.

Warm water promotes fast and good mixing of the individual components.

## PROCESSING PARAMETERS

C-41 PRO

**Time:** 4:20 min    **Temperature:** 35 - 38°C    **Replenishment rates:** 44 ml/135-36    Rack & Tank (hanger)  
 44 ml/120    Rack & Tank (hanger)  
 33 ml/135-36    Roller transport  
 20 ml/ m Film 135    continuous machines (CF)

The data given are guideline values that may deviate in practice, depending on the individual developing machine used, on type of films as well as on the workload.

Tempered working solutions are subject to a continuous evaporation of water. Accordingly, the evaporation should be compensated by a daily addition of water to the working solution in order to avoid an increase in the concentration. Top up the working tank with water up to the overflow level, every day before start working.

## PROCESSING PARAMETERS

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## OCCUPATIONAL SAFETY

Handling of photographic chemicals is safe, if used properly and protective measures are followed. Hazard and precautionary information can be found on the label (H and P phrases, hazard symbol) and in the safety data sheet. Personal protective equipment should include safety goggles or face shield, protective gloves and a lab coat or apron.

## STORAGE

Uni Bleach concentrate should be stored dry, frost-proof and out of the reach of children. The maximum temperature range is between 5°C and 25°C. Storage temperatures between 10°C and 20°C are ideal.

## SHELF LIFE

Shelf life of Uni Bleach concentrate, replenisher and freshly prepared working solution is literally unlimited.

## DISPOSAL

Photographic chemicals - concentrates or used baths - must not be discharged into the public sewerage system. These chemicals must be discarded by commercial waste treatment companies, who properly treat and dispose of in accordance with legal regulations. Further information can be found in the safety data sheet.