

Graphic Arts Chemicals: Fixer & Hardener

Grafix Fixer & Replenisher, a liquid concentrate fixer and its companion, B&W Universal Hardener, are designed for the manual and machine processing of graphic arts films and papers

- Easy to prepare, highly stable working strength solutions
- High buffer capacity to minimize sludging and scaling
- High throughput capacity for long, economical working life
- Ideal for use with all Graphic Arts photo-sensitive materials
- Suitable for use in all types of manual and machine units for the processing of lith, contone, image setter and rapid access materials



Grafix Fixer & Replenisher 2x5L 160201
B&W Universal Hardener 6x500ml 181102

PROCESS SPECIFICATIONS

Machine Processing:

Application	Dilution of Grafix Fixer & Replenisher	Universal Hardener Addition	Processing Conditions		Replenishment Rate* (ml/sq metre)
			Temp. (°C)	Time (sec)	
Films	1 + 3	25ml Litre	20° - 40°	30 - 90	300 - 500

*recommended starting point

Manual Processing:

Dilution of Grafix Fixer & Replenisher	Recommended Temp. °C	Processing Time (sec)
1 + 3	20° ± 2°	90 -150

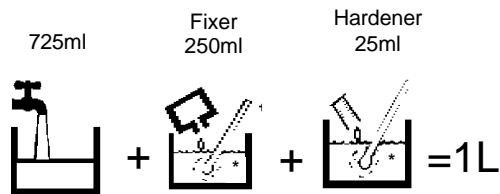
Preparation: **Grafix**

Graphic Arts Chemicals for Labs

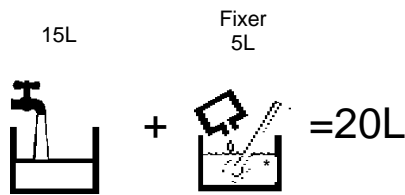
Grafix Fixer & Replenisher

* Mix well

Dilution: 1 + 3 to make 1L



Dilution: 1 + 3 to make 20L



Optimum fixer efficiency (including silver content & pH) will be maintained if the silver content of the solution in use is kept below 6 to 7 grams per litre, and the pH between 4.0 and 4.5. A high silver level should be reduced by increasing the replenishment rate. Conversely if the silver level is lower, then the replenishment rate may be reduced. An increase in pH not accompanied by a rise in silver content may be due to a high developer carryover and in this case the recommended limits should be restored by the careful addition of dilute acetic acid to the tank solution.

If experiencing drying problems or jamming when machine processing it is recommended that Hardener is added at the rate of 25mls per litre to the replenisher mix.

B&W Universal should be added to fixer replenisher solution at the rate of 25ml of hardener to every litre of fixer. However, this may be varied up to 50ml per litre depending upon the particular material being processed. NB: The hardener concentrate should only be added to the working strength fixer replenisher while stirring the solution thoroughly. The hardener concentrate must never be added directly to the undiluted fixer concentrate.

NOTE: When filling a machine or preparing replenisher solutions, extreme care should be taken to avoid cross-contamination of the developer solutions with fixer since even small volumes of fixer will cause large processing variations.

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. However, a storage temperature 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. No more than one week's supply of the replenisher solution 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 most suitable for your use.

WARRANTY: Seller expressly disclaims any and all warranties, expressed 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 under an ISO 9001/2000 approved system by:

CHAMPION PHOTOCHEMISTRY INTERNATIONAL LTD

Hubert Road, Brentwood, Essex, England
Tel: ++ 44 (0)1277 263646 Fax: ++ 44 (0)1277 260832
Website: www.championphotochemistry.com