

USING ARCHIVE

Films and prints absorb contaminants in processing which lead to deterioration unless completely removed. Water will not wash alum-hardening prints and films, and extended washing with water can stain prints. ARCHIVE Fixer Remover swiftly and thoroughly removes all types of contamination, including thiosulfate and related compounds, microbiotic and mineral deposits from the water supply, air-born microbes, and hydroquinone used in the manufacture of resin-coated, stabilization and gallery-type papers.

PERMANENCE

ARCHIVE Fixer Remover alone cannot guarantee permanence. The stability of photographic images depends on many factors throughout processing, storage and handling. All SPRINT B&W products are designed to increase the potential permanence of films and prints when used as directed, including mixing, timing, agitation, and water washes.

The extremely brief time required in each SPRINT procedure step reduced stains caused by extended immersion. BLOCK Stop Bath is buffered to protect print fiber sizing against damage by acids and saturation with water and thiosulfates. RECORD Speed Fixer works quickly before excess thiosulfate absorption can begin. RECORD Alum Hardening Converter protects against abrasion. END RUN Wetting Agent & Stabilizer protects against abrasion, static charges, dust and humidity.

HOW TO MIX

Dilute ARCHIVE Fixer Remover concentrate 1:9 with water to make the desired volume of working solution.

FOR EXAMPLE: 100ml ARCHIVE Fixer Remover Concentrate
+ 900ml Water

1000ml ARCHIVE Fixer Remover Working Solution

HOW TO USE

The life expectancy of films and prints increases with the removal of thiosulfate and other contaminants through washing. The quick BASIC PROCEDURE meets commercial requirements. The variations given in ARCHIVAL PROCEDURES increase the effectiveness of ARCHIVE Fixer Remover to meet stricter requirements.

BASIC PROCEDURE:

After fixing as directed on the RECORD label, follow this BASIC PROCEDURE to meet commercial standards of permanence. (Less than 2 mcg/cm² thiosulfate.)

| BASIC PROCEDURE | B&W NEGATIVE FILMS & RESIN-COATED PRINTS | SW & DW FIBER PRINTS |
|--------------------------|--|----------------------|
| Step 1: Water Prewash | 1 Minute(s) | 1 Minute(s) |
| Step 2: Remove Fixer | 2-3 Minute(s) | 3 Minute(s) |
| Step 3: Final Water Wash | 1-3 Minute(s) | 10 Minute(s) |

Agitate continuously for the first minute, and for 10-15 seconds of each minute thereafter. Use at any temperature 18-25°C / 64.5-77°F. For films, solution should be at the same temperature as other solutions in the process.

WATER WASHES: The following empty & refill method is imperative for thorough washing. Most automatic washers exchange water too slowly, only once every 6-60 minutes.

FILMS: Exchange water completely (empty & refill) three times in a row, then once every 20 seconds thereafter.

PRINTS: Exchange water completely (empty & refill) once every 20 seconds in the first minute, and then at least once every three minutes thereafter, for a total of a least 6 complete changes of water in a 10 minute Final Wash.

For a more thorough washing procedure, that meets archival specifications, see ARCHIVAL PROCEDURES below.

ARCHIVAL PROCEDURES:

The BASIC PROCEDURE above may be changed to meet higher archival standards of permanence. (Undetectable levels of thiosulfate.)

FILMS: Fix in RECORD Film Fixer solution and follow the BASIC PROCEDURE with a full 3 minutes in Step 3: Final Water Wash.

PRINTS: Any one of the following variations on the BASIC PROCEDURE will reduce thiosulfate concentrations to less than 1 mcg/cm². Any five of the following variations will reduce thiosulfate to undetectable levels:

- Use RECORD Fast Print Fixer (2:8) and limit fixing time to 30 seconds.
- Limit Fixer Capacity to twelve 8x10 prints per liter or use a second fresh fixer bath (20-60seconds) before Prewash.
- Extend Prewash (Step 1) to 5-10 minutes.

- Extend Final Water Wash (Step 3) to 20 minutes.
- Repeat Steps 2 and 3, with or without selenium toner.
- Omit Alum Hardening Converter

HOLDING BATH

For convenience, prints may be held in a tray of plain water between Steps 1 & 2 of the BASIC PROCEDURE for up to 30 minutes. To hold prints for more than 30 minutes, empty & refill every 30 minutes, or add 1ml (20 drops) of BLOCK Stop Bath concentrate per liter of water in the holding tray to retard microbe growth in still water.

CAPACITY & INDICATOR

ARCHIVE Fixer Remover working solution has an indicator color which is blue when fresh and changes through green to yellow as it is exhausted. The Fixer Remover solution should be replaced when yellow. An accumulation of crystals which do not dissolve at room temperature and/or yellow color indicates exhaustion of ARCHIVE Fixer Remover Concentrate.

One liter of ARCHIVE Fixer Remover working solution will process at least sixty rolls of 35 mm, 36 exposure film or equivalent or sixty 8x10 fiber prints or ninety 8x10 resin-coated prints.

Capacity and indicator will vary with the effectiveness of the Water Prewash step. The capacity of used working solution diminishes with storage time.

SHELF LIFE

Stored at 25°C / 77°F or lower, away from all unnecessary light, ARCHIVE has the following shelf life:

| Concentrate | at least | Diluted 1:9 | at least |
|-------------------------|-------------|------------------------|------------|
| Unopened | 12 Month(s) | Unused, full container | 3 Month(s) |
| Opened, full container | 6 Month(s) | With up to 25% air | 1 Month |
| Opened w/ up to 25% air | 3 Month(s) | Uncovered tray | 1 Week |

WARNING: SENSITIZER - MAY CAUSE ALLERGIC REACTIONS OR ASTHMA. HARMFUL IF SWALLOWED, INHALED OR ABSORBED THROUGH SKIN. MAY CAUSE MILD SKIN AND EYE IRRITATION.

PRECAUTIONS

Avoid contact with eyes, skin, or clothing. Do not swallow. Avoid breathing vapor or mist. Wear chemical resistant gloves and apron (butyl rubber) and safety glasses. Ensure darkroom is ventilated with an exhaust fan to remove vapors. Wash thoroughly after handling, and before eating, drinking or smoking.

HANDLING, STORAGE AND DISPOSAL

Keep container closed when in use. Store away from acids, oxidizers, and incompatible materials, in a cool, well ventilated area. Absorb spills with kitty litter, sand or earth and package in a suitable container for disposal. Do not reuse container.

FIRST AID

For Eye/ Skin Contact:

Rinse eyes and/or skin with plenty of water for several minutes. Get medical attention if irritation develops and persists.

For Inhalation:

Remove from area to fresh air. If not breathing, give artificial respiration. Get immediate medical attention. If breathing is difficult, give oxygen.

For Ingestion:

DO NOT induce vomiting. Give victim a glass of water. Get immediate medical attention. Do not give anything by mouth to an unconscious or convulsing person.

WARNING: KEEP OUT OF REACH OF CHILDREN

For more information, read the Material Safety Data Sheet which may be obtained from your supplier or on the web at www.sprintsystems.com.

Conforms to ASTM D 4236.

EMERGENCY Telephone Number: Chem Tel 1-800-255-3924, or contact a physician or your local Poison Control Center.

LIMITED WARRANTY

Sprint Systems will not be responsible for any harmful effects caused by swallowing or inhaling the contents of any Sprint chemical, or by contact of Sprint chemicals with skin or eyes. Warranty limited to replacement of Sprint products if defective in manufacture, labeling or packaging.

SPRINT[®] ARCHIVE[™]



FIXER REMOVER

REMOVES CONTAMINANTS AND SHORTENS ARCHIVAL WASH TIMES
DILUTE 1:9 WATER FOR FILMS AND PRINTS