

ARCHIVAL WASH CONCENTRATE

..... is a super concentrate that is diluted 43 times.

The use of Archival Wash as an added rinse step can significantly accelerate the removal of hypo by providing a chemical environment that facilitates the migration of the hypo out of the emulsion and paper. An added benefit is that the accelerated migration means that rinse time requirements are significantly shortened.

Archival Wash is a process enhancing addition to the film and print developing process. There are two shortcomings associated with the practice of achieving archival permanence in photographic records. The first is the difficulty associated with the effective removal of "hypo" from the film or paper. The second involves the extremely long wash times associated with reaching the contamination limits established for archival specifications.

Residual hypo, or thiosulfate, is responsible for the stain and image degradation that evolves over a long period of time, ultimately destroying the record or image. The ability to remove thiosulfate from emulsions or paper base is also a function of the chemical composition of the fixer that is used to remove unused silver from the emulsion; therefore, any wash with archival objectives will perform differently to different conditions.

As thiosulfate builds up in used Archival Wash baths, the migration out of the emulsion and paper is opposed by migration into the product. Migration stops when the concentration inside the product equals the concentration in the bath. When the concentration or contamination level equals the minimum requirements for archival record specifications, the bath is "exhausted." A fresh water rinse will remove most but not all of the remaining thiosulfate; and this again is a function of rinse time.

In general, the use of Archival Wash at an added rinse time of 1 minute for film and RC paper, and 5 minutes for double weight paper, and equal times for a final fresh water rinse will achieve archival or near archival requirements for a fresh working solution rinse. A working solution is prepared by mixing 1 part **Archival Wash Concentrate** to 43 parts water.

CATALOG NUMBER

**11 9714
11 9717
11 9728**

PACKAGE

**12x 32 ounces
4x 1 Gallon
5 Gallons**