

The FloClear® Advantage –

The following list is the benefits our users have all reported back to us after installing the FloClear®.

Advantages	Impact on Business
Reduces Piling on Blankets	Reduce Blanket Maintenance, Minimize Related Solvent Use, Extend Blanket Life
Fountain Solution is Always Like New or Fresh	Run Cleaner and More Consistent Color. Run Wetter, Minimize Water Adjustments.
Virtually Eliminate Fountain Solution Waste	Eliminate Drain Discharge, Reduce Sewer Surcharges, Eliminate Neutralizing. Eliminate Hauling of Waste Fountain Solution.
Removes Paper Fiber, Ink and Offset Powder	Virtually Eliminate Dampening System Cleaning even with hybrid or UV ink. Fountain Solution can carry away more contaminants away from blankets, plates and rollers.
Greatly Reduces Fountain Solution Trouble-Shooting	Higher Productivity, Maximize Press Production Time.
Works Independently of Recirculation Loop	Does not impede or restrict flow to and from press.
Provides Peace of Mind	Reduce downtime and troubleshooting and unplanned waste.

FloClear® Benefits as reported by Users & Explanations

Fountain Solution Activity Is Consistent Throughout the Production Week.

The FloClear® removes all of the contamination keeping the fountain solution clean and fresh. The carry off by the paper allows for replenishment of the consumed critical ingredients of the fountain solution concentrates. The printer no longer is constantly chasing color or making water adjustments throughout the week. These benefits result in more consistent color and less fountain solution trouble-shooting and higher productivity with greater customer satisfaction.

Blankets Stay Cleaner With Less Piling.

The consistently clean fountain solution is capable of carrying away more contaminants, such as ink and paper fiber, away from the dampening system. Without FloClear® the fountain solution quickly becomes saturated with paper fibers and ink. When the capacity of the fountain solution to carry away contaminants is exceeded, the particles coagulate and drop out of solution on virtually any available surface including pans, blankets, rollers and tanks. With the FloClear® the contaminants are immediately trapped in the Separation Medias before they can deposit on critical dampening system components. These benefits result in less labor in scrubbing blankets, less solvent used on cleaning blankets, thus improved blanket performance and life.

Color Is More Consistent and Water Adjustments Are Reduced.

Since the FloClear® removes all of the contaminants, water adjustments are not necessary to compensate for the dirty fountain solution. This is similar to trying to mop a floor with dirty mop water. Dirty mop water is simply not as effective in cleaning the floor, the same with fountain solution. Water speed variables contribute to color density variation. If water adjustments are consistent, color will be more consistent. This feature contributes to improved customer satisfaction, improved press productivity and a few less midnight phone calls.

Fountain Solution Typically Will Not Have To Be Changed Between Ink Changes.

Users have stated that they no longer have to dump and change fountain solution when they switch between hybrid and conventional inks. Additionally, white or metallic inks will not create the requirement to change fountain solution. FloClear® traps all of the ink particles in the Separation Cartridge, avoiding the color contamination caused by whites or metallics. This results in less press down-time, less labor changing fountain solution and cleaning the dampening system.

Reduced Environmental Impact.

More and more cities are either monitoring or starting to monitor copper, zinc, cadmium, phosphates, pH, COD, BOD and total suspended solids. All of these are found in waste fountain solution that is typically dumped down the drain. Waste fountain solution will be very high in total suspended solids due to the ink, paper fiber and spray powders. The FloClear® greatly extends the period between fountain solution dumps, virtually eliminating the waste stream to drain. It is not uncommon for printers to never replace the fountain solution once the FloClear is installed. If a change is required, the total suspended solids and metals content will be very low. Using the FloClear® greatly reduces or eliminates the waste fountain solution going to drain, thus greatly reducing the copper, zinc, cadmium, phosphates, COD, BOD and total suspended solids going to drain.

Reduced Solvent and Chemical Usage.

The FloClear® traps the contaminants that usually are deposited in pans, circulator tanks or on blankets and/or rollers. Typically it requires cleaners or solvents and elbow grease to remove the buildup of ink and paper from the dampening system or blankets. The elimination of this build up minimizes the need for aggressive cleaning, resulting in less chemical and rag usage and a reduction in the required purchases and reporting of these items. A good example is the practice of “gassing” the slip roll on web presses with solvent to remove the ink. With the FloClear® this process can be minimized due to the reduction of ink deposits on the roller. Additionally, by having a cleaner more efficient fountain solution, it may be possible to reduce the concentration that was previously increased to overcome the contamination issues. In one case, the FloClear® enabled the printer to reduce dosage 30%, reducing feedback in the dampening system.

Repeatability Improvements on Job Reprints.

Due to the improved consistency and cleanliness of the dampening system, the press is easier to set up on reprints. Users have found that when doing a reprint they are able to adjust the press settings to the prior run settings and be within +/- 5% of the last run densities. This provides faster roll-ups with less paper and ink waste while dialing in to match the previous run.

Reduced Hauling Costs.

Most printers do not haul waste fountain solution based on local requirements and company philosophy. For those that do haul, the FloClear® will dramatically reduce the related costs. Fountain solution is fairly expensive to have hauled, due to it being water-based with a low fuel value. It typically can be \$100-\$250/55g. barrel based on location and volume. The FloClear® will minimize this expense and add real dollars to the bottom line.

Fountain Solution Becomes a Non-Issue When Problems Arise.

Trouble-shooting problems become easier since the fountain solution is now a controlled component of the process with FloClear®. The FloClear® minimizes the on press problems related to contamination, so press productivity is improved. Virtually all of the problems with fountain solution can be contributed to contamination from the inks, paper and solvents. Less solvent is used, due to improved dampening system performance since it is cleaner, so contamination of the fountain solution is decreased.

Improved Press Productivity.

Since the press does not have to be shut-down for fountain solution changes and dampening system maintenance, the press is producing quality printing. Fountain solution related trouble-shooting is minimized keeping the press running. Blanket life is improved, so press down-time to change blankets is minimized.

With FloClear® You Will Run Cleaner, Longer and Stronger!

We GUARANTEE that the FloClear® will have a impact on your business that will result in improved productivity, less unplanned waste, reduce your impact on the environment and will add value to your bottom line! To have a complete ROI done for your application call:

FloClear® L.L.C.