



# Modern Printing Colors

## **Fountain Solution 3A (FS3A) Facts**

- ◆ Enhanced Ink Drying
- ◆ Faster Press Startup
- ◆ Less Waste
- ◆ Sharper Dot
- ◆ No VOC's

"FS3A" contains NO "VOC's". No organic compounds such as alcohol or alcohol substitutes are in the fountain solution. This makes for a safe environment in the pressroom.

1. "FS3A" eliminates the dependency of having to add dangerous alcohol or alcohol substitutes; they are not needed.
2. "FS3A" is biodegradable.
3. With "FS3A", plates appear to be very wet; yet, "FS3A" does not emulsify the ink.
4. "FS3A" keeps the dampening system cleaner than other fountain solutions. Special ingredients have been added for this purpose.
5. Inks print stronger and usually have to be cut back when changing over to "FS3A". Blacks will be denser and colors brighter.
6. With "FS3A" startups are quick and clean.
7. "FS3A" allows ink to dry faster. With no alcohol or alcohol substitutes to break down the ink, less water is emulsified and the ink dries faster.
8. "FS3A" does not contain chrome, phosphates or ammonia bichromate.
9. "FS3A" can be used on any offset printing press including web heat-set.

## **Pressroom Information**

FS3A represents a new generation in fountain solutions. The new technology eliminates all volatile compounds (VOC's) associated with fountain solution. OSHA and EPA have shown interest in addressing this issue. Some states have already mandated less than 6% alcohol usage on offset presses.

1. FS3A is non-hazardous, nontoxic and will not support a flame.
2. The dampening system must be cleaned and flushed before using FS3A.
3. Mix at a ratio of three (3) - five (5) ounces per gallon of water.
4. FS3A works in a range of 4.0 to 5.1 pH.
5. Because FS3A contains no organic solvents, ink emulsification is reduced.
6. The resulting print shows sharpness, gloss and accelerated drying.
7. FS3A does not require R.O. or refrigerated water.
8. When using FS3A colors come up strong. Be prepared to cut back ink.
9. If problems appear check Shore a hardness of rollers. Metering rollers should be A soft 22 and form rollers 24.
10. Light roller settings are recommended.
  - 1/8" to 3/16" - chrome to form
  - 5/16" to 3/8" - dampener roller to plate
  - Harris Duotrol - 1/4" chrome to form plate

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