

We're all
in this together



LithoTech International

PTY LTD

'Innovative products for the printing industry'

Fountain Solutions

Refrigerated Circulating Units

Filtration for Dampening Systems

Consumables

Fount and Alcohol Dosers

Technical Support

Presses have changed



What about fountain chemistry ?

What do we want in a fount?

- Cost effective
- Low water settings
- Quick drying
- Reliable
- Consistent
- Does not damage press
- Low environmental impact

What fount satisfies the following criteria?

- FOGRA approved
- 20% Less water
- Faster ink water balance
- More control of colour
- Higher flash point
- Lower VOC
- Safer to use than IPA
- Premixed balanced equation

ONLY ONE

"2in1" Fountain Solution



Test Certificate
<i>For the fountain solution concentrate</i>
" 2 IN 1 FOUNTAIN SOLUTION "
for sheetfed applications
<i>a product of the company</i>
ALGRAPHIC INTERNATIONAL LIMITED, COWFOLD
The fountain solution concentrate „2 IN 1 FOUNTAIN SOLUTION“ a product of the company Algraphic International Limited in Cowfold, West Sussex, UK, was tested by the FOGRA in accordance to the guideline "How to test the corrosivity of fountain solution concentrates" (version 01/2004). This guideline was jointly established with the printing press manufacturers listed below:
<ul style="list-style-type: none">▪ Heidelberg Druckmaschinen AG▪ MAN Roland Druckmaschinen AG▪ Koenig & Bauer AG
The issued test certificate confirms that the tested fountain solution concentrate did not exceed the requested limits of corrosive attack against specific metallic materials as described in the above mentioned guideline.
The test certificate refers exclusively to the chemical composition of the fountain solution concentrate submitted for the test and as described in technical report No. 18084
2004-10-06
 Dr. W. Rauh FOGRA Forschungsgesellschaft Druck e.V. Postfach 800469 D-81604 München

“2in1” Fountain Solution

- Only need to mix two components not three = **easier and better control**
- Less flammable (Higher flash point 23.5 degrees Celsius) = **safer no raw IPA in Pressroom**
- Greater wetting properties therefore less dampening solution to press = **efficient**
- Less Ink usage = **quicker drying and saving ink**
- Better dot registration = **cleaner, sharper and brighter image**
- Lower VOC (Less alcohol in air) = **healthier**

Isopropyl Alcohol

Advantages

- ✓ It is relatively inexpensive
- ✓ Has excellent wetting properties

Disadvantages

- ✓ Flammable (low flash point 12 to 19 degrees)
- ✓ Restrictions on storage and transport
- ✓ Vaporises (volatile organic concentration in air VOC)
- ✓ Environmental pollutant

Conventional Dampening System

Difficult trying to balance three components while printing

Press operators should be able to concentrate on printing not juggling with dampening solution

Dampening Solution

```
graph TD; A[Dampening Solution] --- B[Water 84% - 90%]; A --- C[Fountain Solution 2% - 4 %]; A --- D[Isopropyl Alcohol 8% to 12%];
```

Water
84% - 90%

Fountain Solution
2% - 4 %

Isopropyl Alcohol
8% to 12%

Advantages of 2in1 Fountain Solution over Isopropyl Alcohol

- ✓ Easy to use (Only water and 2in1 in reservoir)
- ✓ 22% better wetting properties than IPA
- ✓ Considerably lower fire risk (Flash point 23.5°C)
- ✓ Less on press therefore lower VOC in pressroom
- ✓ More control (Hydrometer and thermometer only)

"2in1" Fountain Solution

Replaces both fountain solution and alcohol in the dampening solution

Dampening Solution

```
graph TD; A[Dampening Solution] --- B[Water<br/>89% - 92%]; A --- C["2in1" Fountain Solution<br/>8% to 11%];
```

Water

89% - 92%

"2in1" Fountain Solution

8% to 11%

"2in1" Fountain Solution

A Unique Product to Replace Conventional Printing Chemistry

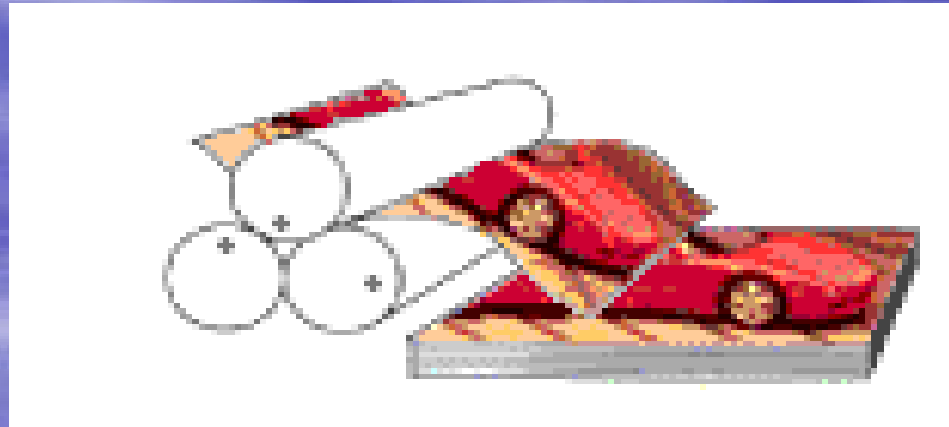


"2in1" Fountain Solution

replaces fountain and alcohol components in the dampening system on sheetfed, commercial web, forms, envelope and metal decorating presses

Meeting the challenges of the current economic environment

- This means being smarter than your opposition.
- What else can we do that improves the efficiency of the printing process?



- Reduce wastage of dampening solution
- Control contamination
- Minimize down time
- Keep press clean

The simple answer is
refrigeration and filtration of
dampening solution.

FILTRATION

- Install the best filtration one can afford.
- Simple system to 25 micron
- Advanced systems to 1 micron



Offset Printing.

Simple LTI Filtration System

- Submersible pump 1500 liter per hour
- Specially constructed filter bags with oil absorption and 25 micron filter pore

This system is simple to install and is cost effective.



Clear After 10 Minutes

Filtration to 1 Micron is ideal

LTI offers a leading manufacturers filtration system:

FX-1

A tripart filtration system with 5 micron, 1 micron and absorption

by

MGE

MGE FX-1

Three stage filtration

1. 5Micron
2. 1 Micron
3. Absorption

Self monitoring

Easy cartridge
replacement

Low running cost

Up to three months

between cartridge replacement



Benefits of filtration

- ✓ Reduction of waste as dampening solution remains productive for up to four months
- ✓ Contamination from wash ups, ink and stock removed keeping press cleaner
- ✓ Considerable saving on down time for press maintenance
- ✓ Less impact on the environment as considerably less fountain solution ends up in the ecosystem

Refrigeration

Keeping your fountain solution at a constant temperature gives benefits especially in systems using alcohol dampening

- In alcohol systems evaporation to a minimum
- Ink / registration improved in all presses
- Less evaporation of dampening solution
- Less paper stretch

Refrigerated Circulation Systems by MGE

From 0.5 to 12 kW

Custom built to
customers requirements

Easy access click out
removable panels

Alcohol and fount dosing
can be included

Pumpback systems and
collection tanks custom
built

Built to UK standards



**Thank you for your participation in
this presentation**

LithoTech International Pty Ltd

"Innovative Products for the Printing Industry"

Importer and Australasian Agent

of

BM Management cc

Logotec

MGE

equipment and consumables

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Please place orders at:

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Assist us to ensure you receive your order as requested

Please include the following information:

- company name
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- delivery address
- product details
- contact person
- request by date

To avoid costly urgent deliveries LTI recommends customers have at least 7 days stock on hand at all times.

For assistance with ordering contact our LTI office.

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