



## Choose the Correct Fountain Solution

- 1 Transilwrap recommends the use of “Transilwrap Fount” fountain solution produced by Allied Pressroom Chemistry (1-800-327-8487) and sold by London Litho (1-800-695-2104).
- 2 Start with a clean system. Flush all lines, tanks, and rollers. Remove all paper dust, stains, and deposits. Extra time and effort spent cleaning the system pays dividends in faster start-ups and better quality prints.
- 3 Recommended pH is 3.8 - 4.2; conductivity 1000 upm plus water reading.
- 4 Use alcohol or an alcohol sub to maintain pH. Recommended alcohol sub is “Hydro Dyne,” used in conjunction with “Transilwrap Fount.”
- 5 Inks dry on plastic substrates through oxidation. Take all steps necessary to reduce water usage and ink emulsification. Run just enough fountain solution to keep the plates moist, but not saturated (just before scumming occurs).
- 6 Keep track of all press settings, i.e. press speeds; ink; fountain solution pH, conductivity, and type; coating information, etc.
- 7 A checklist has been supplied with this document to help you track the entire printing process.

NOTE: These suggestions and recommendations are true and accurate to the best of our knowledge. They should in no way be considered as a guarantee. Material suitability for any application or processing procedure should be determined prior to purchase. It is solely the users responsibility to determine suitability.



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Tip:



## Recommendations to Control Static in Plastic Sheet

- 1 Maintaining static control is crucial to successful printing on plastic substrates. Unfortunately, it is also one of the most overlooked features in the design of the printing press.
- 2 Material should be conditioned in the pressroom environment before attempting to print. When received, remove all of the packing material. Place the unwrapped pallets in the pressroom for a minimum of 24 hours, or as long as 72 hours if the temperature differential outdoors vs. indoors is excessive.
- 3 Relative humidity should be maintained to at least 40%. Many experts believe 40% to 50% is ideal. Higher than 50% is satisfactory as long as moisture does not build up on the sheets.
- 4 If you are using an older press with analog controls, grounding the feed table and other units directly to an earthen ground can help reduce static build-up in the press. A true grounding point at the press location includes a grounding rod through the floor, with heavy wiring attaching the press to it. Newer presses with digital controls should NOT use this method, as electronics failure can result.
- 5 Excessive pressure at nip points is one of the biggest contributors of static in a press. To reduce press-induced static generation, reduce blanket pressures and all feed nips to a minimum.
- 6 Electrical static elimination equipment should also be used. These devices all rely on an ionizer to produce positive and negatively charged ions, which are then discharged to the surrounding air. These ions then react with the opposing charged ions on the plastic sheet, which in turn neutralizes the static charge.
- 7 Static eliminators come in several different configurations. There are static control bars, blowers, and transvectors. All can be used in the printing process.
- 8 A static control bar must be mounted to enable the sheets to be treated within one inch of the electrodes. These devices have no air-assisted delivery systems, which limits the distance the unstable ions will travel before disintegration.
- 9 A blower is a device much like a small fan with ionization components incorporated into the housing. Blowers are capable of sending the ionized air as much as two to three feet from the unit. Their use is limited by the very generalized direction of the airflow from the unit. It can be aimed and the units are portable, but they lack pinpoint accuracy in directing the airstream.
- 10 Transvectors use the compressed air system found in all modern printing operations to direct the ions produced from an attached static bar. These units can be used like an air curtain, blowing across the web, or they can be set up to direct that curtain of air into the feed section of the press, where they assist the feed mechanism in separating the sheets in a sheet feeder. Ionized air can be directed 12 to 15 feet from the unit.
- 11 The use of tinsel can be beneficial, but it has limited effectiveness. For the best results, drape the tinsel across the sheets and connect the ends to the grounded press.



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# Transilwrap Print On Checklist

Printer Co. Name \_\_\_\_\_

Press: \_\_\_\_\_

Customer \_\_\_\_\_

Date \_\_\_\_\_

Material (check one):  High Impact Polystyrene  P-260EX®  P-300®  P-600®  PRO-Print®  
 Trans-Flex-Cast®  ClingZ®  Trans-Cling II™  Transilprint®  
 Other \_\_\_\_\_

Gauge \_\_\_\_\_ Finish \_\_\_\_\_

Sheet Size \_\_\_\_\_

Lot Number \_\_\_\_\_

Date Material Manufactured \_\_\_\_\_

Skid Numbers \_\_\_\_\_

Transilwrap Job Number \_\_\_\_\_

### FIRST PASS

Print Side:  Smooth  Matte

Run Sheet Number \_\_\_\_\_

What is PH Reading \_\_\_\_\_

What is Conductivity \_\_\_\_\_

After Alcohol \_\_\_\_\_

Ink Manufacture \_\_\_\_\_

Batch Number \_\_\_\_\_

Type of Coating \_\_\_\_\_

Manufacturer of Coating \_\_\_\_\_

Zahn Cup Reading \_\_\_\_\_

Percentage of Coating \_\_\_\_\_

Press Speed \_\_\_\_\_

Plant Temperature °F \_\_\_\_\_

Plant Humidity \_\_\_\_\_

Material Temperature °F (Before Printing) \_\_\_\_\_

Material Temperature °F (After Printing) \_\_\_\_\_

Press \_\_\_\_\_

Pressman \_\_\_\_\_

Supervisor \_\_\_\_\_

### RESULTS (Excellent, Good, Fair, Poor)

Ink Strength \_\_\_\_\_

Ink Adhesion \_\_\_\_\_

Drying Time \_\_\_\_\_

Material Feeding Ability \_\_\_\_\_

Die Cutting Method \_\_\_\_\_

Die Cutting Quality \_\_\_\_\_

### SECOND PASS

Print Side:  Smooth  Matte

Run Sheet Number \_\_\_\_\_

What is PH Reading \_\_\_\_\_

What is Conductivity \_\_\_\_\_

After Alcohol \_\_\_\_\_

Ink Manufacture \_\_\_\_\_

Batch Number \_\_\_\_\_

Type of Coating \_\_\_\_\_

Manufacturer of Coating \_\_\_\_\_

Zahn Cup Reading \_\_\_\_\_

Percentage of Coating \_\_\_\_\_

Press Speed \_\_\_\_\_

Plant Temperature °F \_\_\_\_\_

Plant Humidity \_\_\_\_\_

Material Temperature °F (Before Printing) \_\_\_\_\_

Material Temperature °F (After Printing) \_\_\_\_\_

Press \_\_\_\_\_

Pressman \_\_\_\_\_

Supervisor \_\_\_\_\_

### RESULTS (Excellent, Good, Fair, Poor)

Ink Strength \_\_\_\_\_

Ink Adhesion \_\_\_\_\_

Drying Time \_\_\_\_\_

Material Feeding Ability \_\_\_\_\_

Die Cutting Method \_\_\_\_\_

Die Cutting Quality \_\_\_\_\_

COMMENTS: \_\_\_\_\_

\_\_\_\_\_

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