



Graphic Arts Technical Foundation  
200 Deer Run Road – Sewickley, PA 15143  
Phone: (412) 741-6860 (800) 910-4283  
Fax: (412) 741-2311

May 28, 2004

Mr. Bryan A. Isley  
Genesis LLC  
2006 Dilworth Road, East  
Charlotte, NC 28203

Dear Mr. Isley:

We completed the drying testing with the reflex blue ink with various percentages of “Speedy Dry additive.

**INK SETTING** - was measured using the GATF Ink Setting and Drying Time Recorder. A strip of Yupo was printed on the Little Joe Proof Press with emulsification of fountain solution. The printed sample was attached to a metal bar. An unprinted transfer strip of Yupo was placed over the printed strip and the sample was loaded onto the machine. The samples moved forward at a pre-determined speed beneath a set of cam-operated weights. The weights rose and fell pressing the unprinted strip into contact with the printed strip. This created a setoff trail that faded as the ink set. The distance of the setoff trail was measured and the time required for the ink to set was calculated.

SAMPLE	SETTING TIME (HRS.)	COMMENTS ON DRYING
REFLEX	12.1	DRIED HARD AFTER 24HRS
REFLEX 5% DRYER	6.7	DRIED HARD AFTER 24HRS
REFLEX 10% DRYER	3.8	DRIED HARD AFTER 24HRS
REFLEX 20% DRYER	2.9	DRIED HARD AFTER 24HRS

The normal setting time for most ink is within 3 hours. The Speedy Dry significantly reduces the setting time of the ink.

**VOLATILE ORGANIC CONTENT (VOC)** - was performed according to EPA method 24. A 0.3 - 0.5-gram sample of ink was spread across the bottom of an aluminum pan. The sample was placed in an oven at 110°C for one hour. The sample was then removed and allowed to cool to room temperature. The aluminum pan was reweighed and the VOC of the ink was calculated from the difference in weights. This was done twice for each ink sample. The V.O.C. content of this reflex blue was 7%.

I hope this information is helpful. If you have any questions or require additional testing please contact me. You will be billed in the near future.

Sincerely,

Brad E. Evans  
Senior Research Technician  
TLS 5374