Water Ink on CI Press: International Paper

Application Note 108

An actual printing plant in the USA conducted this test.

The ink supply to the press was controlled and delivered at a 17 Zahn Cup second. This resulted in less variation and allowed the tank mount viscometer to be utilized, as designed, for precise control and not total ink conditioning.

Measuring Devices: #2 Zahn Cup, tank mount viscosity sensor and wall mount controller

Ink: Premier Ink #740 Green Water Based, large solid with line work, color consistency verified by X Rite Spectrometer

Subtrate: Paper - 20# Kraft

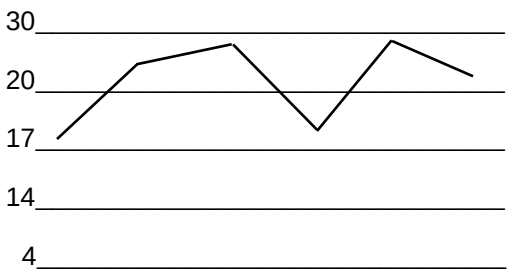
Print Plate Material: Liquid photopolymer - Hercules

Stickyback: Norwood cushion .040

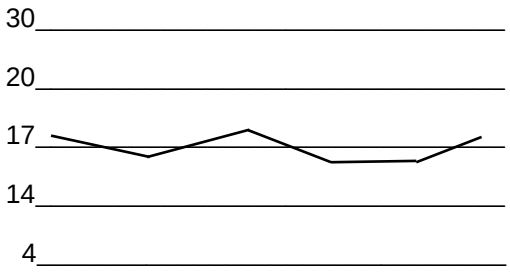
Length of Evaluation: Random #2 Zahn cup readings conducted 2 weeks prior to Norcross evaluation Norcross unit installed May 13, 1991 through May 24, 1991.

TEST RESULT DATA:

#2 ZAHN CUP - RANDOM SAMPLES (in Zahn Cup seconds)



AUTOMATIC VISCOSITY CONTROL (in Zahn Cup seconds)



EVALUATION:

The random sampling with a #2 Zahn Cup placed only two readings within the control limits established for this test. The actual readings ranged from a desired 17 seconds to the highest reading of 29 seconds. The viscosity control system controlled viscosity within a total range of 1 Zahn cup second.

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