AGFA Graphics

IDEAlliance® **Off-Press Proof Application Data Sheet**

Agfa :SherpaProof with :Apogee using :SherpaProof Base 250 g on Epson Stylus PRO x880 series printers with :SherpaProof Inks.

SWOP® Grade 5 Off-Press Proof Application Data Sheet

The IDEAlliance Print Properties Working Group has established a certification process for off-press proofs as input material to publications. In accordance with this process: "The appearance of a hard copy or monitor proof used in this application must have the ability to closely match specific CGATS or other documented characterization data sets within outlined tolerances. See further explanations and recommendations outlined on www.swop.org or www.gracol.org.

The following information is intended to assist producers and consumers in the use of vendor specified proofing materials in an off-press proof application:

I. Manufacturer

Agfa-Gevaert NV
Septestraat 27
B2840 – Mortsel
Belgium

SWOP® • GRACOL® IDEAlliance® CERTIFIED PROOFING SYSTEM Print Predictability

Certified 10/22/08

II. Product

Agfa :SherpaProof system with :Apogee workflow system / Epson 4880-7880-9880 /SherpaProof Base 250 g satin /:SherpaProof Inks.

III. Introduction

The Agfa :SherpaProof family of inkjet digital proofing systems produce color proofs for use commercial offset printing applications by using ICC profiles created with :ColorTune color management software. Agfa :Sherpa Digital Proofing systems utilize :Apogee Prepress workflow software, Qms software and a spectrophotometer for engine calibration and Proofer-Check consistency. The Agfa :Sherpa Digital Proofing systems can be color calibrated to match other proofing systems, and a broad range of printing conditions. In addition to matching the CMYK color space of the target condition, the Agfa :Sherpa Digital Proofing Systems uses PANTONE® and user defined libraries for spot color rendering.

IV. Control Guide

IDEAlliance specifies a control guide such as an ISO 12647-7 Digital Control Strip 2007 be supplied on every off-press proof. As a minimum, any control guide used for proofing applications should contain solids for the primary process colors (YMCK), two-color overprints (RGB) and a three-color overprint (YMC), as well as a 25%, 50%, and 75% tint in stated line screen resolution of each of the primary process colors and 3-color gray patches. All control guides should be checked for accuracy of the original values. Use and interpretation of a control guide is the responsibility of the creator.

V. System Components

The following components and limited processing procedures shall be used with the Agfa :SherpaProof System in order to achieve conformance with this Application Data Sheet:

- Agfa :Apogee Proof version 5.0 or later or any :Apogee workflow system with integrated Proofing option version 5.0 or later
- Epson Stylus Pro™ 4880/7880 or 9880
- Agfa Qms version 5.0 or later
- Agfa ColorTune version 5.0 or later
- A spectrophotometer from either: X-Rite DTP41, DTP45, DTP70, EyeOne Pro, IO or Isis or GretagMacbetch ICColor, Spectrolino /Spectroscan
- Agfa :SherpaProof base 250 gram satin
- Agfa :SherpaProof Ink: Agfa Epson Ultrachrome K3 Ink™ (8 inks) with Photo black and Vivid Magenta.

Procedure for making proofs for use in SWOP® applications with the Agfa :Sherpa Proofing System:

- Load the:SherpaProof base on the Epson Stylus Pro™ 4880/7880/9880 Use the :SherpaProof Ink (Agfa Epson UltraChrome K3 ink™)
- Calibrate the Epson Stylus Pro™ Engine with :Qms as outlined in the :Qms user documentation.
- Perform a “proofer check” calibration check as outlined in the :Qms user documentation.
- If Calibration is good :Qms will indicate that a “confidence score” of higher then 97.5% is reached.

In :Apogee generate a Jobticket in which the following ICC profiles are enabled for the proofing flow:
For detailed procedure follow outlines in CertifiedProofingToolkit version 5.0 for Epsonx880

- for the press-profile: Agfa Swop2006 Coated5.icc
- for the Proofer-profile: 8P-AMDP250-UHQ-720.icc

Alternatively a devicelink profile can be used that combines all necessary profiles and CMM settings, eg.:

- DL-E7880-SWOPgrade5-720UHQ.icc

Key parameters are: Advanced CMM and the use of Closed Loop Optimized proofer profiles with Absolute Colorimetric Render Intent.

VI. Finishing Procedures

Allow proofs to dry for approximately 15 minutes prior to making critical color judgments, or measurements. No further finishing is required.

VII. Finished Proof Characteristics

A proof with the color characteristics referenced in Appendix 1 is to be expected when measured from the IDEAlliance ISO 12647-7 Digital Control Strip 2007 having been properly made to all the listed system components and finishing procedures.

Note: Three-color grays are comprised of Cyan, Magenta, Yellow: 75, 66, 66; 50, 40, 40; and 25, 19, 19 values.

All measurements for comparison to the SWOP2006_Coated5 data were made using a calibrated X-Rite DTP70 Spectrophotometer (D50, 2 degree observer, UV included, with white backup). All tolerances reflect normal systems variability and assume the use of a calibrated measurement device.

VIII. Sample Proofs

AGFA has supplied three (3) sets of hard copy proofs for retention that conform to this Application Data Sheet by an IDEAlliance certifying contractor.

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Appendix 1
Characterization Data CIELab Values

IDEAlliance ISO 12647-7 Control Strip 2007 for SWOP 2006 Coated #5

Patch ID Top	CIELab Data			Maximum
	L*	a*	b*	CIE ΔLab
A1	32.65	-22.26	-23.31	-
A2	56.56	-37.98	-40.93	5
A3	64.7	-26.67	-29.7	-
A4	78.29	-11.19	-11.42	-
A5	26.42	40.29	-3.23	-
A6	47.64	69.97	-3.54	5
A7	58.14	49.08	-2.95	-
A8	75.88	19.59	0.11	-
A9	47.09	-4.83	44.51	-
A10	85.43	-5.82	84.62	5
A11	86.28	-5.18	60.33	-
A12	88.09	-2.76	26.91	-
A13	54.38	-50.05	-13.62	-
A14	37.79	50.15	-21.11	-
A15	68.36	21.69	65.39	-
A16	48.86	15.14	31.31	-
A17	40.69	32.61	12.52	-
A18	33.99	22.15	-14.98	-
A19	51.08	-17.54	25.5	-
A20	36.75	-2.64	-22.16	-
A21	87.97	-0.06	3.85	-
A22	83.35	-0.16	3.31	-
A23	73.53	-0.34	2.37	-
A24	56.84	-0.35	1.34	-
A25	38.89	0.04	0.98	-
A26	27.07	0.55	1.06	-
A27	19	1.01	1.18	5

Patch ID Bottom	CIELab Data			Maximum
	L*	a*	b*	CIE ΔLab
B1	15.76	11.76	-23.91	-
B2	26.54	18.56	-42.01	6
B3	40.3	15.39	-31.31	-
B4	65.8	7.14	-13.75	-
B5	26.49	34.78	21.45	-
B6	47.43	64.38	42.74	6
B7	57.01	44.95	36.24	-
B8	74.61	17.32	19.99	-
B9	30.65	-35.02	14.67	-
B10	52.26	-61.49	26.76	6
B11	61.52	-39.1	20.93	-
B12	76.68	-14.8	10.89	-
B13	44.23	-17.41	-40.21	-
B14	47.52	67.23	15.19	-
B15	70.77	-24.24	58.75	-
B16	66.7	19.12	19.7	-
B17	51.52	34.92	26.64	-
B18	40.31	31.25	24.75	-
B19	45.31	-25.37	-1.12	-
B20	90.06	-0.01	4.14	3
B21	87.67	0	3.75	-
B22	82.19	-0.02	3.09	-
B23	71.47	-0.07	2.12	-
B24	54.7	-0.44	1.24	3
B25	39.1	-0.23	1.19	-
B26	24.73	0.21	-0.12	-
B27	10.04	0.3	0.53	-

Note: Color measurements comparing measured proof data to this reference data requires the use of a calibrated spectrophotometer.