

Kodak Matchprint Inkjet Proofing Solution w/ Epson Stylus PRO 800 Printer on Kodak Matchprint Pro Coated SM240P, Type 1 for GRACoL Coated #1

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

Eastman Kodak Company
343 State Street
Rochester, NY 14650 U.S.A.

II. Product

Kodak Matchprint Inkjet Proofing Solution w/ **Epson Stylus PRO** 800 Printer on **Kodak Matchprint** Pro Coated SM240P, Type 1 Media

III. Introduction

Kodak Matchprint Inkjet Proofing Solution is based on software developed by Kodak, consisting of innovative screening and calibration technologies, and a certified process incorporating Color Confirmation. Using **Kodak** Proofing Software, customers will benefit from excellent color accuracy, enhanced image smoothness, quick calibration tools and direct connectivity to **Kodak** Unified Workflow Solutions. A proof made with a **Matchprint** Inkjet Proofing Solution, to these Application Data Sheet specifications, is intended to simulate the characteristics of a production press operating within the **GRACoL** Guidelines for production printing.

IV. Control Guide

IDEAlliance specifies a control guide such as an ISO12647-7 Digital Control Strip 2007 be supplied on every off-press proof. As a minimum, this guide 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

Hardware and Softgoods:

- **Epson Stylus PRO** 800 Inkjet Printer with **Epson UltraChrome** K3 ink in Photo Black mode
- **Kodak Matchprint** Pro Coated SM240P, Type 1 Media
- An **X-Rite** DTP-41 Spectrophotometer with UV filter and white plaque DTP41-55 or **GretagMacbeth Spectroscan** Spectrophotometer with UV filter or **GretagMacbeth Eye-One** UV Cut Spectrophotometer can be used for calibration.

Software:

- **Kodak** Proofing Software for **Matchprint** Inkjet Solution, v3.1 and above.

Setup and Protocol:

- Refer to the **Kodak** Proofing Software's On-Line Help for the following procedures:
- Download the **Epson** x800: **Kodak Matchprint** Pro Coated SM240P installer from the ecentral.creo.com website. Installers can be found in the Self Support > Downloads area.
- Install the installer using the **Kodak** Proofing Software's Proofer Administrator.
- Calibrate the **Kodak Matchprint** Pro Coated SM240P 720x720 v1 media configuration.
- Create a hot folder in the **Kodak** Proofing Software using the M8_T1SM240_7_GRLC16_1v3_m_U.dvl device link for color management.
- Alternatively, you can apply this device link in your **Kodak Prinergy**, **Prinergy EVO**, or **Brisque** Workflow System and send proofs from your workflow to the **Kodak** Proofing Software.

VI. Finishing Procedures

None 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 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 **GRACoL** 2006 C1 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

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

Appendix 1
 Characterization Data CIELab Values

IDEAlliance ISO 12647-7 Digital Control Strip for GRACoL 2006 Coated #1

Patch ID	CIELab Data			Maximum
	L*	a*	b*	ΔE (ab)
A1	30.05	-22.65	-28.82	-
A2	54.96	-37.12	-50.00	5
A3	66.60	-25.13	-37.01	-
A4	82.64	-9.99	-17.85	-
A5	26.45	41.59	-1.73	-
A6	47.93	74.11	-3.01	5
A7	60.35	51.93	-5.67	-
A8	80.03	20.38	-5.35	-
A9	48.53	-5.30	49.19	-
A10	88.94	-5.02	93.17	5
A11	90.56	-4.57	63.58	-
A12	92.84	-2.51	24.77	-
A13	52.53	-53.19	-19.34	-
A14	37.89	52.56	-22.07	-
A15	70.88	22.91	72.40	-
A16	50.86	15.13	33.06	-
A17	42.17	33.42	13.25	-
A18	34.60	23.09	-17.15	-
A19	52.45	-18.04	26.12	-
A20	36.56	-1.43	-26.62	-
A21	92.88	-0.08	-1.96	-
A22	87.93	-0.20	-1.98	-
A23	77.43	-0.40	-1.93	-
A24	59.77	-0.53	-1.61	-
A25	39.75	-0.57	-1.02	-
A26	25.57	-0.21	-0.53	-

Patch ID	CIELab Data			Maximum
	L*	a*	b*	ΔE (ab)
B1	15.18	8.84	-24.61	-
B2	24.13	17.20	-46.14	6
B3	40.84	17.09	-35.77	-
B4	69.57	8.37	-19.26	-
B5	26.22	35.38	24.54	-
B6	47.37	68.25	48.79	6
B7	59.09	47.55	39.25	-
B8	78.62	17.92	18.20	-
B9	28.47	-39.38	12.04	-
B10	50.12	-68.43	25.00	6
B11	62.69	-41.44	20.96	-
B12	80.64	-14.75	8.25	-
B13	42.57	-16.27	-48.19	-
B14	48.28	70.95	17.76	-
B15	72.70	-25.21	65.09	-
B16	70.23	19.71	18.63	-
B17	53.40	36.61	28.63	-
B18	41.61	32.01	26.83	-
B19	45.40	-26.20	-3.82	-
B20	95.00	-0.02	-1.96	3
B21	92.43	0.19	-2.06	-
B22	86.74	0.31	-2.04	-
B23	75.52	0.07	-1.50	-
B24	57.54	-0.12	-1.44	3
B25	39.39	-0.30	-0.55	-
B26	23.00	0.17	-0.25	-

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