

# **COLOR CONFORMANCE CONFERENCE '25**

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**New Port Richey, FL (Tampa North)  
January 28–30, 2025**



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# Color Match Scan

With and without postproduction

January 28, 2025

Presented by

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# Prerequisite procedure

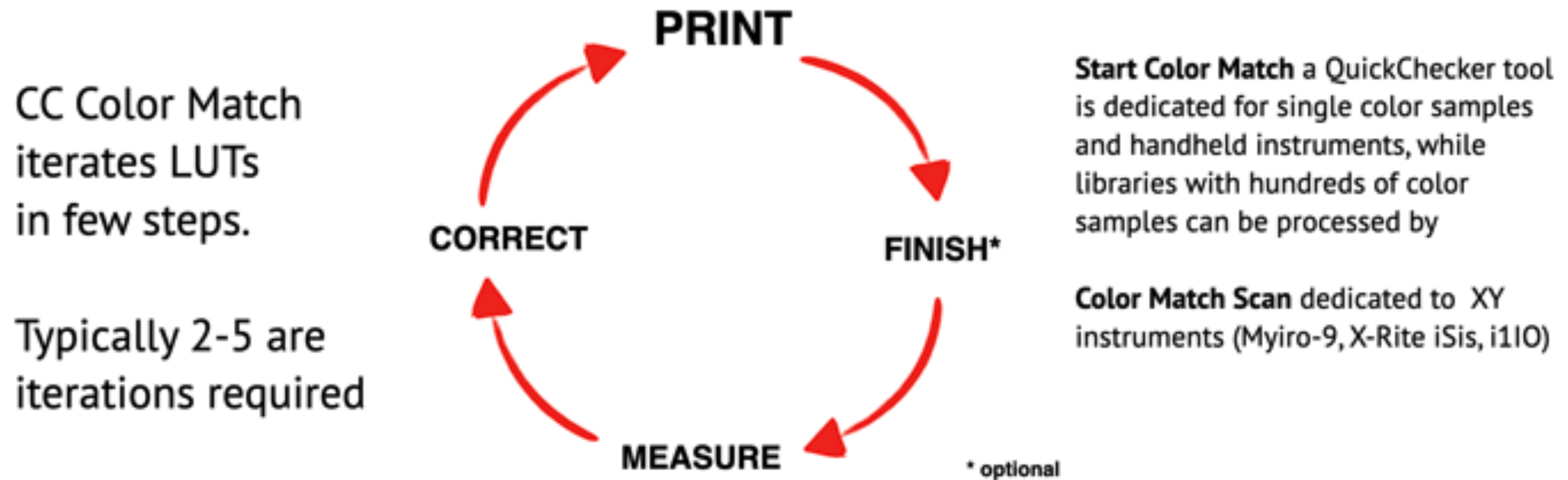
- Paper setup
  - Head alignments, Ink restrictions, Total Ink Limits,
  - Linearisation
- ICC Profile Creation
- Exporting Device Profile to ChromaChecker Cloud

# Important notices!

- When working on LUTs (Color Match), always use the full gamut of the printer. The simulation profile (GRACoL) has to be switched off!
- Some tasks — for example, Snowflake, Variator, Color Sample PDF, or Fanbook in most cases, can also be printed without a Simulation profile.
- Most RIPs can't manage more than 28 Named Colors on a single document!
- CMYK or RGB workflow can deliver additional data related to current deltas.
- For Production purposes, install LUT on the RIP. It is critical to ensure that RIP uses the device profile to address CMYK coordinates for named colors.

# Post-production

Finishing (varnish, lamination, coatings) requires separate iterations



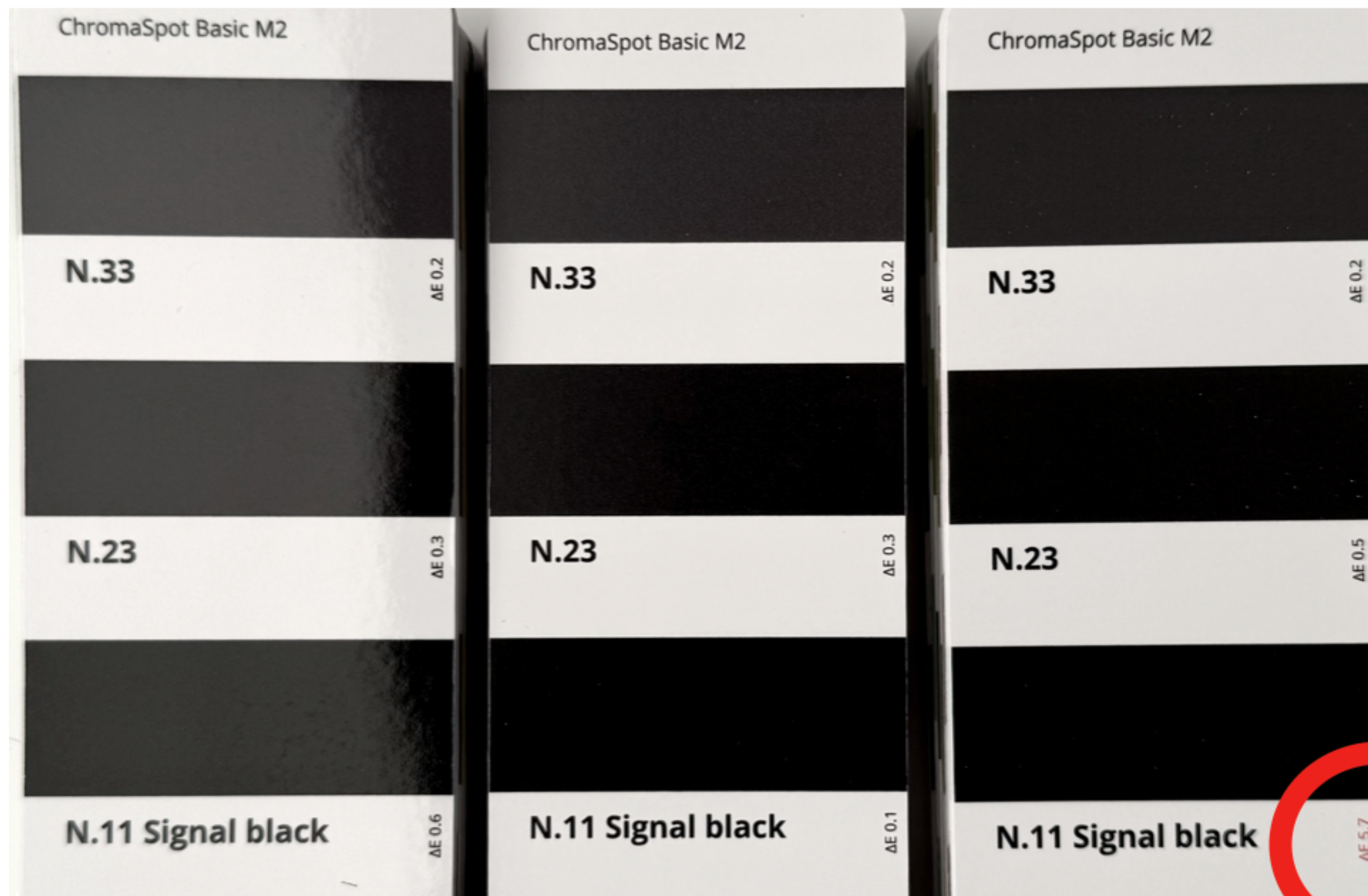


# Matt • Standard • Glossy

		sample	C	M	Y	K	L	a	b	dE
gloss	1	N.90	3.25933	2.67186	3.45007	0.00000	89.88	-0.33	0.05	0.54
	2	N.78	11.82879	13.33333	13.66140	0.00000	78.26	-0.26	-0.02	0.25
	3	N.68	21.66781	22.49485	22.74510	3.06096	67.94	-0.17	0.05	0.26
	4	N.59	25.88235	27.84009	26.56596	10.43717	58.7	-0.14	-0.03	0.32
	5	N.50	33.32418	34.11765	30.58824	21.15816	50.49	-0.1	-0.12	0.20
	6	N.42	40.52796	40.85298	35.29412	31.26726	42.45	0.06	0.05	0.19
no finishing	1	N.90	5.49020	5.29641	6.23026	0.00000	89.88	-0.33	0.05	0.31
	2	N.78	16.41260	16.69184	17.92172	0.00000	78.26	-0.26	-0.02	0.19
	3	N.68	23.65148	24.01923	25.01411	6.22568	67.94	-0.17	0.05	0.24
	4	N.59	27.95758	29.50637	28.61982	14.27024	58.7	-0.14	-0.03	0.28
	5	N.50	34.77989	35.29412	32.14771	24.15045	50.49	-0.1	-0.12	0.26
	6	N.42	41.68154	42.11643	36.40955	33.31350	42.45	0.06	0.05	0.31
matte	1	N.90	3.17998	2.90227	3.81476	0.00000	89.88	-0.33	0.05	0.46
	2	N.78	13.67971	14.90196	14.90196	0.00000	78.26	-0.26	-0.02	0.21
	3	N.68	22.74510	24.26948	24.01465	5.25521	67.94	-0.17	0.05	0.12
	4	N.59	28.59541	30.19913	27.76989	14.47166	58.7	-0.14	-0.03	0.13
	5	N.50	34.64103	36.50721	32.41321	24.61891	50.49	-0.1	-0.12	0.36
	6	N.42	42.28122	42.24308	36.86275	34.19852	42.45	0.06	0.05	0.27



# Matt • Standard • Glossy



The algorithm is compensating CMYK coordinates:

Sample: **ChromaSpot N.11 Signal black**

**glossy** - total ink limit (TIL) = 275%, delta = 0.59

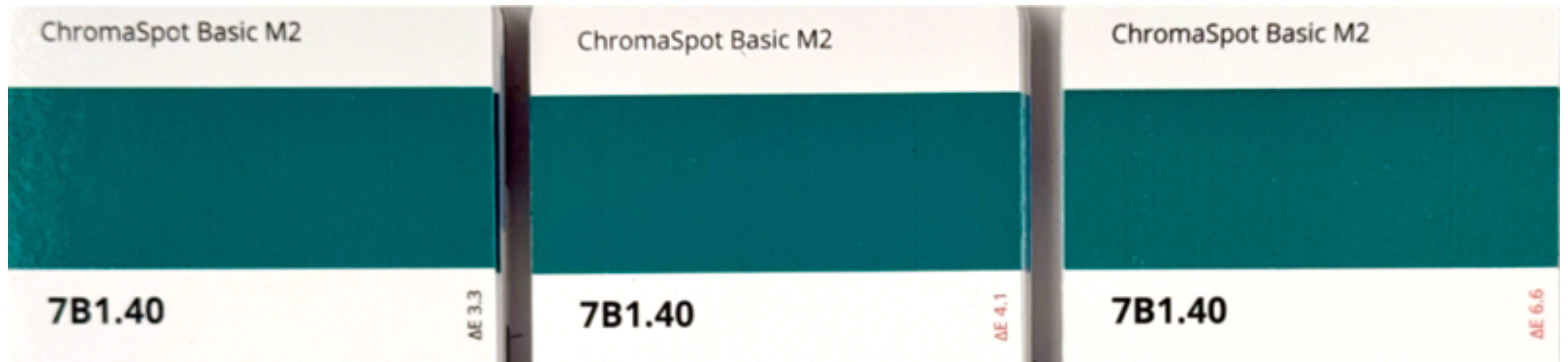
C = 74.67 M = 66.31 Y = 48.75 K = 84.94

**matt** - total ink limit (TIL) = 397% delta = 5.66

C = 99.35 M = 98.88 Y = 98.25 K = 100.0

There is no way to apply more ink; the existing TIL is exceptionally high.

# Mat • Standard • Glossy



In this case, gloss reduces the initial 4.1 to 3.3  $\Delta E$ , while matte lamination increases it up to 6.6

In all cases, the ChromaSpot 7B1.40, when printed on KM-1e on a selected substrate, is outside the printer gamut.



# Resources – Thank You

## Helpful links

- PDF version of this presentation
- [https://chromachecker.com/manuals/en/show/km-1e\\_luts](https://chromachecker.com/manuals/en/show/km-1e_luts)
- [https://chromachecker.com/manuals/en/show/1\\_paper\\_setup](https://chromachecker.com/manuals/en/show/1_paper_setup)
- [https://chromachecker.com/manuals/en/show/color\\_match\\_scan](https://chromachecker.com/manuals/en/show/color_match_scan)
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