



TECHNICAL

206

BULLETIN

SAHARA WATERLESS INKS

As the name implies, Sahara 4-color process inks have been specifically formulated for application on direct-imaging waterless presses such as the Heidelberg Quickmaster DI 46-4, the Ryobi 3404 DI, the Omni-Adast 705C DI, the Xerox DocuColor 233 DI-4 and DocuColor 400 DI-5.

Nearly two years in development, this unique ink technology surpasses all others currently available for its ease of “runability” and its absence of “toning,” commonly associated with waterless process printing.

Sahara provides the following characteristics:

- ❖ Exceptional set speed and suitability for a wide variety of coated stocks.
- ❖ Excellent blanket and roller stability.
- ❖ Dries to a hard, slick film with very good gloss.
- ❖ Excellent anti-mist properties.
- ❖ Finishing Friendly – Fully imprintable, U.V. and aqueous coatable, and foil stampable.

Note: Heidelberg QMDI presses have an internal Color Curve adjustment that must be set by the operator prior to running Gans Sahara process inks. See the next page of this bulletin for specifics.

<u>Ink#</u>	<u>Description</u>	<u>Tack</u>	<u>Ink#</u>	<u>Description</u>	<u>Tack</u>
A114261	Process Black	13.2	A119708	Dense Black	14.0
A114262	Process Cyan	12.0	A114262HT	Hi Tack Cyan	14.0
A114263M	Process Magenta	11.5	A114263HT	Hi Tack Magenta	12.5
A114264	Process Yellow	10.0	A114264HT	Hi Tack Yellow	11.5

Tack reading @1200 rpm, 1 minute, 90°F – T.A. 101 Inkometer.

<u>Varnish#</u>	<u>Description</u>
A115912	Sahara Matte Varnish
A115911	Sahara Wax Free Varnish
A120211	Sahara Scuff Resistant Varnish

(Continues on next page)

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Heidelberg QMDI presses have an internal Color Curve adjustment that must be set by the operator prior to running Gans Sahara process inks. The color curves for the Heidelberg QMDI presses should be set at the following starting positions. These starting numbers may change slightly over the next few months as testing continues at Heidelberg.

Black	+38
Cyan	+17
Magenta	+20
Yellow	+60

This "color curve" adjustment will allow the customer to match the proofing system as Heidelberg intended the system to work. Slight adjustments to these starting numbers may be required to compensate for ambient conditions. According to demo operators at Heidelberg West, Sahara process inks have outperformed all other inks currently available, offering higher gloss, better dot reproduction, and sharper clarity, with most turn-around times under 9 minutes. (Note: It takes 9 minutes to image a set of plates on the Heidelberg QMDI.)

Dense color and high contrast images are difficult to achieve on a dry offset press. When Gans Sahara process inks and Gans ISO.dot blankets are used, the operator can expect to achieve higher saturation levels than any other available ink system (as much as 10-15 points higher density) with no additional dot gain. Additional density will almost always require additional anti-offset spray powder. We advise that you run slightly more powder and take precautions to stack short loads in the delivery until the new tolerances are established.

With these "color curve" adjustments made, you can expect instant success with Gans Sahara process inks.

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