

Diatone[®] MASTER SP

PRODUCT DESCRIPTION

The **Diatone[®] MASTER SP** sheet-fed offset ink is an over-night type process ink, basically developed to be an all purposes offset ink on every kind of paper. This series has excellent gloss, quick setting and very good dot sharpness.

Because its formulation and rub resistance performance, it is ideal for printing on glossy coated paper, mat coated paper and Bristol board, as well.

Suitable to print fast work-and-turn jobs.

This series has high pigment concentration enabling to get maximum color density with optimal contrast.

The **Diatone[®] MASTER SP** dries faster and gives higher gloss when applying IR. The temperature inside the paper pile must not be higher than 32 ÷ 35° C.

Only four process colors are available.

MAIN CHARACTERISTICS

Setting performance.-

Setting on glossy or mat coated paper is very fast when the absorbency is the proper one. In case of very low or very high absorbency, some additive could be necessary. Our technical department can give advice in any case.

Over-night performance.-

Not being skinless, this ink can remain in fountain and rollers for 10 to 12 hours, naturally depending on press and room conditions. In any case, for long stops, we recommend using anti-drying spray.

Improved application for low-alcohol fountain solution.-

Both, conventional or low-alcohol fountain solution, can be used enjoying consistent printing quality. Alcohol contents depends on press type, dampening system or additive. In general, we do not recommend alcohol concentrations lower than 5% or higher than 15%.

As general rule, water temperature in each dampening duct, should be:

- Room temperature lower than 25° C : between 10 ÷ 15°C
- Room temperature higher than 25° C: between 7 ÷ 10°C

The best results are for pH value between 4,8 and 5,5.

Diatone® MASTER SP consistency properties

AMARILLO		MAGENTA		CIAN		NEGRO	
TACK	FLOW	TACK	FLOW	TACK	FLOW	TACK	FLOW
210	6.5	210	7.5	210	8.0	240	6.5

Tack: This is measured using Tack-o-scope at 100m/min

Flow: This is the slope measured using spread-o-meter.

(Note: The value mentioned in the above table could be modified, in which case they will be upgraded in the next revision of the page web).

Diatone® MASTER SP resistances table

	YELLOW	MAGENTA	CYAN	BLACK
LIGHT FASTNESS	2-3	5	8	8
HEAT RESISTANCE	4	4	5	5
ACIDS RESISTANCE	5	2	5	5
ALCALI RESISTANCE	5	3	5	5
WAX BLEEDING	3	4	5	5
VINIL COATING RES.	4	4	5	4

Light fastness values follow the European standard (1 ÷ 8)

Other values go from 1 (poor) to 5 (excellent).

REMARKS:

UV varnishing.-

Due to the several factors influencing the UV varnishing process (like varnish quality, waiting time after printing, and so on), we recommend to carry out a previous test.

