

Diatone[®] 2001-X SP

PRODUCT DESCRIPTION

The **Diatone[®] 2001-X SP** sheet-fed offset ink is a over-night type of process ink, basically developed to give the best results on art paper, having a good balance between setting, high gloss, dot sharpness and printability. Not recommended to be used on mat coated paper.

Nice printing densities can be reached because its high pigment concentration. Its gloss can be improved by using IR drying system. In this case, inner pile temperature cannot be higher than 32 ÷ 35° C.

Only four process colors are available.

MAIN CHARACTERISTICS

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.

High gloss and excellent dot reproduction.-

The high viscosity / medium tack balance, gives reduced dot gain and improves contrast. The varnish formulation is specially adequate for the best brilliant results on quality coated paper.
Low tendency to produce scumming on plates.

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 4,5 and 5,5.

Diatone® 2001-X SF consistency properties

YELLOW		MAGENTA		CYAN		BLACK	
TACK	FLOW	TACK	FLOW	TACK	FLOW	TACK	FLOW
230	8.0	240	8.5	240	9.0	240	7.0

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® 2001-X SF 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.