

EvoJet CT

Single Pass ink, No CMR, Low odor.

EvoJet CT ink series is a solution for printing in single pass on several types of printhead such as a Ricoh Gen 4,5 and 6 , Konica Minolta 1024i, SEIKO RC1536 and many others...

SUBSTRATES & APPLICATIONS

This ink covers a wide range of substrates.

INK ADVANTAGES

EvoJet CT offers an expanded substrate compatibility through an improved and superior adhesion and with his high reactivity allows to print high speed.

EvoJet CT offers an expanded color gamut. Pigment particle size is sub-micron defined for extra fine resolution and controlled dot gain avoiding a maximum of satellite over spray.

Surface tension

(\pm 0,5 mN/m) at a temperature of 25 °C

24.5-25,5 mN/m for all colors

24.5-25,5 mN/m for white

Viscosity

Measures done at 45 °C/shear rate between 100 and 1000s⁻¹

White	9.5 - 10,5 mPa.s
Cyan	9.5 - 10,5 mPa.s
Magenta	9.5 - 10,5 mPa.s
Yellow	9.5 - 10,5 mPa.s
Black	9.5 - 10,5 mPa.s

OUTDOOR DURABILITY

Color variance should be of minimum impact for a 2 years period for a proper use of EvoJet CT inks. EvoJet CT is formulated to adhere on substrates with surface tensions higher than or equal to 42 mN/m, but it is highly recommended that all substrates are tested before use.

PRINT PARAMETERS

- Temperature: 18 to 25 °C
- Optimum humidity: 40 to 60% (without condensation)
- Operating humidity: 30 to 70% (without condensation)

CONVERSION

For optimal performances, it is recommended to thoroughly clean the ink system and jet assemblies with EvoClean flushing solvent. It is highly recommended to replace all filters. For further detailed info on how to proceed converting a printer with EvoJet CT series, please consult our appropriate documentation.

CURING

Maximum adhesion, chemical and scratch resistance will not be reached before 48 hours after initial curing.

EvoJet CT inks are formulated for optimum curing conditions at 300 to 400 mj/cm² UV dose with mercury lamps and 395 nm, >7,5W/cm² for LED curing.

HEAD TENSIONS

Tension too high:

Volume of droplets too big, needs more ink to flow through the subtank and high risks of ink shortness in the subtank; results in ink gradually fading out (ink starvation) during printing. Very difficult to align printing heads especially when not all heads are over charged with the same % voltage. Ink droplets are fired with a deviation.

Over tension of the head will cause air bubbles in the print head causing firing problems at start up and beginning of every printing file. Need to respect the voltages indicated on the printing heads. Strongly recommended to 'match' the printing heads in function of tension on one and the same printer.

TEMPERATURE

The temperature of the subtank and the print heads needs to be ideally the same.

VACUUM

If tension of the printing head is too high, it needs to be compensated with up scaling the negative pressure. Very difficult to set negative pressure especially when not all heads are over charged with the same voltage.

PROFILE

To have a good printed dot resolution and optimum adhesion, the ink channel linearization and ink limit need to be set very carefully.

To have a maximum color gamut, the ink channel linearization and ink limit need to be set very carefully before calculating the ICC profile.

In order to obtain good printing results following settings are critical:

Print head tension as indicated.

Temperatures:

- Subtank 40 °C
- Print heads 42 – 44 °C

Negative pressure.

Profiling especially the ink channel linearization and ink limit.

MACHINE STOPPAGE

To avoid print head degradation, the inks should be flushed from the print heads before putting the printer at rest for longer time periods.

PACKING

Available in 1L bottle

STORAGE

For optimum performances and durability EvoJet CT series has to be stored at 15 to 30 °C.

Shelf life from date of manufacture is:

- All colors: 24 months
- White: 9 months
- Evoclean: 36 months

Always stir the ink well before use, especially the whites (risk of sedimentation during long-term storage).

HEALTH AND SAFETY

The vast majority of printing inks and related products formulated by Encres DUBUIT contain no substances of very high concern. Our products comply with the requirements of Directives 2011/65/EU (RoHS 2), 2015/863/EU (RoHS 3) and 94/62/EC (heavy metal concentration levels present in packaging). For more information about our regulatory compliance, please consult our Eco System document, available on request.

PRODUCTS	CODE
PROCESS COLOURS	
Evojet CT Yellow	BEVO44735L
Evojet CT Magenta	BEVO44736L
Evojet CT Cyan	BEVO44737L
Evojet CT Black	BEVO44738L
VARNISH	
EvoFinish CT	BEVO44732L

Encres DUBUIT guarantees the quality of our products. However, we cannot guarantee the final result, because we exercise no control over individual operating procedures. Our responsibility is limited solely to the exchange of ink or varnish. The quality of a substrate to be printed can vary, as well as an overprinted ink; therefore, the above information is given in good faith based on the state of our art and prior experience. This statement also applies to our technical assistance. When using our inks and varnishes on a new substrate or when changing operating procedures, we strongly recommend testing first a full-scale production to ensure compatibility. Please refer to our General Conditions of Sales.

