Encres DUBUIT
INNOVATIVE INKS

# EvoJet 1700 UV

EvoJet 1700 UV ink series are a reliable solution for use with print heads with 5pl definition and higher such as Ricoh GEN 3, 4 & 5, Konica Minolta > 6pl, and others.

Flexible UV ink, superior adhesion for acrylic, expanded colour Gamut, extra fine resolution, fast curing, low residual odour.

## SUBSTRATES & APPLICATIONS

Especially formulated to print on Acrylic without pre- or post-treatment.
Compatible with both flexible and rigid media such as PVC, vinyl, banner, mesh, paper, canvas, styrene (no edge clipping), polypro, polycarbonate, Dibond, PriPlak, Akylux, ... with the exceptional characteristic of 180 °C thermoformed bending.

## ADVANTAGES

EvoJet 1700 UV offers an expanded substrate compatibility trough an improved and superior adhesion over the original inks.
EvoJet 1700 UV series offers an expanded color gamut compared to the current original ink set. Pigment particle size is sub-micron defined for extra fine resolution and controlled dot gain avoiding a maximum of satellite over spray.

## 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, please consult our appropriate documentation.

## STORAGE

For optimum performances and durability EvoJet inks have to be stored under 30 °C. Shelf life is 24 months from date of manufacture for all colors and 9 months for whites.

## PRINT PARAMETERS

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

## OUTDOOR DURABILITY

Color variance should be of minimum impact for a 2 years period for a proper use of EvoJet inks. EvoJet 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.

## CURING

Maximum adhesion, chemical and scratch resistance will not be reached before 48 hours after initial curing. EvoJet inks are formulated for optimum curing conditions at 300 to 400 mj/cm² UV dose with mercury lamps and 395 Nm/cm², >4W/cm² for LED curing.

## MACHINE STOPPAGE

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

## HYGIENE AND SECURITY

Printing inks and related products formulated by Encres DUBUIT contain no substances of very high concern (SVHC) candidate for authorization (to January 15, 2018) and comply with the requirements of Directives 2011/65/EU (RoHS) 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.

## PACKING

All EvoJet inks are available in 1 and 5 liters containers and in 4 liters boxes; EvoClean solvent is available in 1 liter container.

## HEAD TENSIONS

Tension to high:
Volume of droplets too big, needs more ink to flow through the sub tank and high risks of ink shortness in the sub tank; 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.


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## TEMPERATURE

The temperature of the sub tank and the printing heads needs to be the same.
If temp of subtank is lower than the printing heads, ink has no time to heat and ink will be less fluid and by consequence will not pass that easy through the printing nozzles. Most print heads have no ink buffer so the ink need to arrive at the right temperature.

## VACUUM

If tension of the printing head 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, the ink channel linearization and ink limit need to be set very carefully.
To have an 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:
Sub tank 40 °C – Print heads 42 – 44 °C
Negative pressure.
Profiling especially the ink channel linearization and ink limit.

## WARRANTY

If EvoJet 1700 UV inks are proven responsible for the cause of the breakdown of your digital printer, Encres Dubuit will provide parts, service or reimbursement for the cost required to repair any damage to the ink train.

| PRODUCTS | REFERENCE | DESCRIPTION |
|---|---|---|
| **PROCESS COLOURS** | | |
| EvoJet 1700 Cyan | H5807 | |
| EvoJet 1700 Magenta | H5006 | |
| EvoJet 1700 Yellow | H5007 | |
| EvoJet 1700 Black | H5004 | |
| EvoJet 1700 Light Cyan | H5127 | |
| EvoJet 1700 Light Magenta | H5128 | |
| **WHITES** | | |
| Evowhite | H5009 | Very good adhesion – High flexibility – High opacity |
| Evowhite | H5760 | Very white – Superior flexibility – Flexible substrates |
| EvoWhite | H5883 | Very white – No VCL – Low viscosity for high speed printing – Good adhesion – Good flexibility |
| **MAINTENANCE** | | |
| EvoClean | HLM 3556 | Cleaning and « flush » solvent |
| Wipers Superpolx | N1200A0909 | 9”x 9” per boxes of 150 formats |
| Swab | NTX712A | Large rectangular printing head swab for printing head cleaning |
| **VARNISH** | | |
| EvoFinish | H4937 | Overprinting varnish |
| EvoFinish | H5752 | Overprinting varnish, multi layers to give relief and braille effects |
| **ADHESION PROMOTOR** | | |
| EvoPrime | H5099 | Primer for glass and metal |




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