

EvoJet 1720 UV

EvoJet 1720 UV ink series is a reliable solution for use with print heads with 7pl definition and higher such as Ricoh GEN 4 & 5, and others. EvoJet 1720 UV inks have a superior adhesion, an expanded colour Gamut, an extra fine resolution and a fast curing.

SUBSTRATES & APPLICATIONS

Especially formulated to print on: PVC, vinyl, tarpaulin, banner, paper, canvas, styrene, polycarbonate, Dibond®...

ADVANTAGES

EvoJet 1720 UV can be used to print a wide variety of media. The particle size of the pigment is less than one micron for better definition and optimized drop control, which greatly reduces satellite effects.

CONVERSION

For optimal performances, it is recommended to thoroughly clean the ink system and the parts in contact with the ink using EvoClean solvent. It is highly recommended to replace all filters. Refer to the DUBUIT Inks documentation for details of the conversion process.

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

STORAGE

For optimum performances and durability EvoJet 1720 UV series has to be stored under 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).

PRINT PARAMETERS

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

OUTDOOR DURABILITY

EvoJet 1720 UV 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 1720 UV 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.

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.

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.

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.

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.



TEMPERATURE

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

If the temperature of the heads is too low, the ink does not have time to heat up, it is not fluid enough which results in the lack or absence of ink when ejected.

The reverse will cause a spray due to too fluid ink. The heads do not have an ink supply, so it is important that the ink reaches the head at the right temperature through the subtanks.

PACKING

Available in 1 L bottle

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 y carefully before calculating the ICC profile.

PRODUCTS	ARTICLE CODE	DESCRIPTION
PROCESS COLOURS		
EvoJet 1720 Cyan	BEVO42474L	
EvoJet 1720 Magenta	BEVO42475L	
EvoJet 1720 Yellow	BEVO42476L	
EvoJet 1720 Black	BEVO42478L	
EvoJet 1720 Cyan Light	BEVO43477L	
EvoJet 1720 Magenta Light	BEVO43478L	
WHITE		
Evowhite 1720	BEVO42480L	
MAINTENANCE		
EvoClean Solvent HLM 3556	D3556L	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
VARNISHES		
EvoFinish 5752	BEVO5752L	Overprinting varnish, multi layers to give relief and braille effects - Non LED
EvoFinish 5148 LED	BEVO5148L	Overprinting varnish, multi layers to give relief and braille effects - For LED

MEASURING LIGHT FASTNESS

Light Fastness is usually measured by exposing ink prints under light radiation produced by Xenon tube in comparison with master prints.

Those witness are called Blue Wool.

A standard blue wool textile fading test card is placed in the same light conditions as the sample under test.

A rating between 1 and 8 is awarded by identifying which one of the eight strips on the blue wool standard card has faded to the same extent as the sample under test

1 - denotes extremely poor colour fastness while 8 - is credited as being lightfast and permanent.

8 -		Exceptional
7 -		Excellent
6 -		Very good
5 -		Good
4 -		Quite good
3 -		Moderate
2 -		Low
1 -		Very low

EVOJET PROCESS COLOURS RATING:

Evojet Process Colors	
Cyan	7/8
Magenta	7/8
Yellow	7/8
Black	8
Light Cyan	7
Light Magenta	6/7

These values mean that EVOJET inks are suitable for outdoor use for 2 years if placed vertically and referred to the middle European climate.

It is recommended to test the final print in real outdoor conditions.

The Light Fastness of a print is the result of the combination:

Ink light fastness + printing conditions + life cycle conditions

Encres DUBUIT garantit la qualité de ses produits. Cependant, nous ne pouvons pas garantir le résultat final, car nous n'exerçons aucun contrôle sur les procédures d'exploitation individuelles. Notre responsabilité se limite uniquement à l'échange d'encre ou de vernis. La qualité d'un substrat à imprimer peut varier. Par conséquent, les informations ci-dessus sont données de bonne foi sur la base de l'état de notre art et de l'expérience antérieure. Cette constatation vaut aussi pour notre assistance technique. Lors de l'utilisation de nos encres et vernis sur un nouveau substrat ou lors du changement des procédures d'exploitation, nous recommandons fortement de tester d'abord une production à grande échelle pour s'assurer de la compatibilité de l'encre. Veuillez-vous référer à nos Conditions Générales de Ventes.



UV Numérique

GRAPHIC - INDUSTRIAL MARKING
TDS REF. EVOJET 1720 - 05

