

# EvoJet Chinese Red

Ink specially formulated for printing on inkjet machines, equipped with print heads such as Ricoh Gen and other printheads with a drop technology greater than 7pl

Spot Color

## SUBSTRATES & APPLICATIONS

- PVC
- Vinyl
- PC
- ABS

## ADVANTAGES

EvoJet Chinese Red can be used to print a wide variety of media (thanks to improved and superior adhesion). The particle size of the pigment is less than one micron for better definition and optimized drop control, which greatly reduces the satellite effects.

## 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 1700 UV series, please consult our appropriate documentation.

## STORAGE

For optimum performances and durability EvoJet series have to be stored under 30 °C.

Shelf life from date of manufacture is:

- All colors: 12 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

Color variance should be of minimum impact for a 2 years period for a proper use of EvoJet UV 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 SPOT COLORS are formulated for optimum curing conditions at 300 to 400 mJ/cm<sup>2</sup> UV dose with mercury lamps and 395 nm, > 8W/cm<sup>2</sup> for LED curing.

## 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.

## 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.

## PACKING

Available in 1 L bottle

## HEAD TENSIONS

Tension too 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.

## TEMPERATURE

The temperature of the sub tank 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:

Sub tank 40 °C – Print heads 42 – 44 °C

Negative pressure.

Profiling especially the ink channel linearization and ink limit.

PRODUCTS	ARTICLE CODE	DESCRIPTION
<b>SPOT COLOR</b>		
EvoJet Chinese Red	BEVO40946L	
EvoJet Fluo-M	BEVO40033L	
EvoJet Fluo-Y	BEVO5149L	
<b>WHITES</b>		
EvoWhite	H5883	Very white – No VCL – Low viscosity for high speed printing – Good adhesion
<b>MAINTENANCE</b>		
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
<b>VARNISH</b>		
EvoFinish	H5752	Overprinting varnish, multi layers to give relief and braille effects – Non LED
EvoFinish	5148 LED	Overprinting varnish, multi layers to give relief and braille effects – For LED

*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.*

