

# FLUORESCENT INKS

Do not pass unnoticed with bright and fresh fluorescent inks!

Fluorescent inks: for the realization of posters, advertising, packaging as well as stationery and security labelling

## CHEMICAL NATURE

Some particular substances have the property, under specific conditions, to convert the absorbed light energy by retransmitting radiation. This process is referred to as fluorescence. Fluorescent systems also losing energy by non-fluorescent modes, the emitted light will lower energy and thus longer wavelength. This means that the UV absorption allow visible light conversion and that the fluorescence will be manifested through colour. At daylight, they will appear intensely coloured with bright, pure colours. These substances absorb UV light or the short wavelengths of the visible spectrum (or both) and convert them into visible light, thus enhancing their own colour. This process is called fluorescence light. After exposure, this fluorescence will last around 8-10 seconds. The emission therefore really takes place during the exposure.

## PRODUCT RANGE

Available in 8 "standard" colours:

Green FLUO	AM 9164
Yellow FLUO	AM 9157
Orange FLUO	AM 9158
Red orange FLUO	AM 9161
Red FLUO	AM 9162
Pink FLUO	AM 9159
Magenta FLUO	AM 9160
Violet FLUO	AM 9163

Intermediate colours can be obtained by mixing the near pigments on the colour wheel.

## APPLICATIONS

These fluorescent inks are available in UV or solvent based formulation, in the range corresponding to the given application.

Due to their semi transparency, their use requires a high percentage of fluorescent pigment (20 to 30%). For the same reason, a white background is preferred. Thus, on a dark substrate, an undercoat layer of white should be printed.

Usually, these inks are printed using a mesh of 90 to 120 threads/cm (225-300 threads/inch).

Because of their chemical nature, a dye absorbed on a matrix, pigments and therefore the fluorescent inks do not have good light fastness.



## STORAGE

The guaranteed shelf life of our inks, undiluted, in the original, unopened container is applicable to inks stored in a dry, well-aired environment at a temperature between 15 to 25 °C (59-77 °F).

- Standard UV inks: 1 year
- Standard solvent based inks: 1 year
- Special shades in solvent or UV: 1 year
- Fluorescent colours: 3 months
- Gold and silver: 3 months
- Transparent shades: 6 months
- Special products, hardeners: 1 year

## HEALTH AND SAFETY

The vast majority of printing inks and related products formulated by Encres DUBUIT contain no substances of very high concern (SVHC) candidates for authorization (as of June 25, 2020) in concentrations greater than 0.1% by mass. 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.

*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.*

