

Polyflex

High flexibility for embossing

Suitable for press finish of non-laminated cards

APPLICATIONS

POLYFLEX ink series is a ready-to-use UV ink, especially designed for printing on Polycarbonate, top-coated PET, expanded PVC, matt PVC for credit cards.

SUBSTRATES

- Polycarbonate
- Top Coated Polyesters
- Matte PVC

BENEFITS

The very flexible POLYFLEX ink can be embossed and cut directly into the print. This ink is very stable in the screen.

INK ADHESION

Because of a large diversity of substrates, we recommend to carry out pre-production trials.

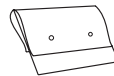
ASPECT

Glossy ink



SCREEN MESH

Mesh 140 to 180 threads/cm (355 threads to 450 threads/inch)



SQUEEGEES

Recommended with this ink: single, double or triple durometer polyurethane blades with hardness between 85 and 75 shores.



DRYING/CURING

UV curing ink. Optimal cure performance of 150 and 250 mJ/cm² is generally achieved with a UV curing unit of one or two 120 W/cm lamps at belt speed of 10 to 20 m/min (32 to 65 feet/min)



CLEANING

Solvents H, ECO N, 93801

THINNING

- Thinner ST178 (1 to 5%)
- Flexible thinner AM9090, to be used in case of embossing

PRINTING EQUIPMENT

Manual, semi-automatic or automatic machines.

PACKING

1 kg & 5 kg



STORAGE

The POLYFLEX ink series are guaranteed to be stable in their original, unopened packaging; they have a shelf life of 24 months. Storage should be at a temperature between 15 and 25 °C (59-77 °F)



COLOUR MATCHING

DUBUIT offers a full in-house colour matching service from 1 kg. Please provide as much information as possible regarding the type of substrate, colour, mesh used...

MULTIFLEX PIGMENT CONCENTRATES

It is possible to enhance the power of colours by adding the Multiflex pigment concentrates. Be aware, however, that the addition of an excessive amount of pigment concentrates may affect the polymerization; please do not use concentrates alone.

FLUORESCENT SHADES

They have to be used on white background. The pot life of these inks is about three months from the date shown on the packaging. The light resistance is limited in time, especially in outdoor exposure.

ADDITIVES AND SPECIAL PRODUCTS

Do not forget that additives must not be incorporated systematically in the inks, but must be used with caution as their dosage and their field of use can often present risks. The special products we deliver are of consistent quality. Encre DUBUIT cannot guarantee the work using these products. Indeed, they cannot influence neither the working methods nor the operating parameters.

HEALTH AND SAFETY

The vast majority of printing inks and related products formulated by Encre 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.

EVALUATION OF LIGHT FASTNESS

The safest method of evaluation involves exposing the printed media in its actual atmosphere: the disadvantage of this method is the duration that must be equal to the desired time. The accelerated method allows to test the printed media in a specific device. In comparing the evolution of printing relative to standard stallions, we can deduct the strength indices (according to standard NFT 30-057):

1 = very poor - 2 = poor - 3 = moderate
4 = pretty good - 5 = good - 6 = very good
7 = excellent - 8 = outstanding.

Light fastness is the maintenance over time of the colour and intensity of a print. Not to be confused with the weather resistance or other factors than light which can decrease printing durability: moisture, air pollution, substrate, heat, cold, etc...

Light Fastness depends on the nature of the light (day or artificial light) and on light intensity (climate, season...). The strength of a print can vary with the thickness of ink deposit (the thinner the ink thickness, the weaker the light resistance) and the nature of the substrate. The strength of an ink depends on the components used (some binders or pigments are more resistant than others to light) and the percentage of dye or of the quantity of white pigment in the ink. Thus we should now that:
Low intensity = loss of resistance.

Pastels Tons = loss of strength.

POLYFLEX INK RANGE SOLID COLOURS - 700 RANGE

ARTICLE DESIGNATION	REF.	CODE 1 KG - 1 L	CODE 5 KG - 5 L
Mid Yellow	710	BPFL710K	
Golden Yellow	720	BPFL720K	
Mandarin	730	BPFL730K	
Vermillion	740	BPFL740K	
Dark Red	750	BPFL750K	
Pink	760	BPFL760K	
Violet	770	BPFL770K	
Primary Blue	780	BPFL780K	
Emerald Green	790	BPFL790K	
BLACK, WHITE, BASE & VARNISH			
Mixing Black	701		BPFL701C
Mixing White	702		BPFL702C
Opaque Black	3164		BPFL255C
Super Opaque White	706		BPFL706C
Base	095	BPFL095K	BPFL095C
Varnish	090		BPFL090C
PROCESS COLOURS			
Cold Yellow 6/7L	430		BPFL430C
Warm Yellow 5/6L	440		BPFL440C
Magenta 7/8L	420		BPFL420C
Cyan	450		BPFL450C
Black	410		BPFL410C
Thixo Base	098	BPFL098K	BPFL098C
LIGHT FASTNESS COLOURS - 900 RANGE			
Yellow	931	BPFL931K	
Red	935	BPFL935K	
Orange	933	BPFL933K	
Dark Red	939	BPFL939K	
Additives			
Thinner	ST178	D178L	D178Q
Flexible Thinner	AM9090		D9090Q

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 Ventas.

