Encres DUBUIT
INNOVATIVE INKS

Uviplak RI

Very high outdoor resistance
Treated Polyolefin sheets

APPLICATIONS
UVIPLAK RI UV ink is specially designed for printing onto Corona treated polyolefin sheets (PP and PE) with a surface energy of at least 42 Dynes/cm². UVIPLAK RI UV ink is usually used for Point of Purchases (POP) displays and is not well adapted to wide format.

SUBSTRATES
- Corona-treated polyolefin (plates) such as Priplak®, Akylux®

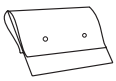
BENEFITS
UVIPLAK RI UV ink is a premium quality series for graphic application showing very high resistance to outdoor exposure and bad weather conditions.

INK ADHESION
Uviplak RI must be used with 3 to 5% of hardener ST 305. The life pot of the mixture is about half a working day. The optimal adhesion is reached after 24/48 hours.
However, the initial adhesion is sufficient to enable the handling and stacking of the printed sheets providing that a good curing in depth is checked by a tape test right at the exit of the UV dryer showing there is no remaining traces of uncured ink on the substrate.
It is possible to accelerate the adhesion process by heating the prints 1/2 hour at 80°C, which allows to check the final adhesion without waiting 48 hours.

Important:
In case of multilayer printing, especially with process colours, you must complete the whole printing within a time period of 24 hours.
Above 24h, the intercoat adhesion may be altered.
Because of a large diversity of substrates, we recommend to carry out trials prior to the full production.

ASPECT
Glossy

SCREEN MESH
The recommended mesh is 140.34 PW to 180.31 PW (355 threads/in to 460 threads/ in).



SQUEEGEES
Recommended with this ink: single, double or triple durometer polyurethane blades with hardness between 65 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 or 93801

THINNING
This ink is in principle ready for use. It is nevertheless possible to adjust the viscosity by adding 1 to 5% of the reactive thinner AM9345 or the standard thinner ST178.

PRINTING EQUIPMENT
Semi-automatic or automatic printers

PACKING
5 kg

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STORAGE

The UVIPLAK RI 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. Encres 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 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.

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.

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UVIPLAK RI RANGE
SOLID COLOURS - 300 RANGE

ARTICLE DESIGNATION	REF.	CODE 1 KG - 1 L	CODE 5 KG - 5 L
Primavera Yellow	300		BPLK300C
Mid Yellow	310		BPLK310C
Golden Yellow	320		BPLK320C
Mandarin	330		BPLK330C
Vermillion	340		BPLK340C
Dark Red	350		BPLK350C
Pink	360		BPLK360C
Violet	370		BPLK370C
Primary Blue	380		BPLK380C
Emerald Green	390		BPLK390C
BLACK, WHITE, BASE & VARNISH			
Mixing Black	601		BPLK601C
White	606		BPLK606C
Opaque Black	GS813		BPLK603C
Glossy Varnish	090		BPLK090C
Thixo Base	098		BPLK098C
Base	095		BPLK095C
PROCESS COLOURS			
Cold Yellow 6/7L	430		BPLK430C
Warm Yellow 5/6L	440		BPLK440C
Magenta 7/8L	420		BPLK420C
Cyan	450		BPLK450C
Black	410		BPLK410C
Thixo Base	098		BPLK098C

LIGHT FASTNESS SOLID COLOURS - 900 RANGE

Yellow	931	BPLK931K	
Orange	933	BPLK933K	
Red	935	BPLK935K	
Dark Red	939	BPLK939K	
ADDITIVES			
Standard Thinner	ST178	D178L	D178Q
Reactive Thinner	AM9345	D9345K	D9345Q
Hardener	ST305	BDIV305K	

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