

# EVOPACK

Glossy UV ink

One component – Ready to use – Hot stamping compatible

## APPLICATIONS

EVOPACK ink series is designed for printing on soft, semi-rigid and rigid plastic materials used in the containers and the packaging decoration: treated PE or PP, HDPE or LDPE (surface tension must be at least 42 dynes/cm), PET, Polycarbonate. When printing several colours, it is recommended not to wait more than 24 hours between each layer's print in order to enhance the inter-coat adhesion.

## SUBSTRATES

- Rigid, semi-rigid or flexible container or tubes in treated PE or PP
- PETG
- PETP
- Polycarbonate
- Polystyrene
- PMMA

## BENEFITS

Ready to use inks.

Outstanding resistance to water and humidity as well as to alcohol which makes EVOPACK a perfect choice for cosmetic applications.

This very flexible ink shows good results on soft tubes and objects coated with a UV or solvent-based barrier varnish.

Hot Stamping compatible.

No leaking of the ink through the screen during machine stoppage.

## INK ADHESION

The water and humidity resistance can be improved if needed by using the ST305 hardener from 3 to 5%. This hardener can also be used to enhance ink adhesion on difficult substrate (bad surface treatment,). Be aware of the pot life once the hardener has been incorporated to the ink: from 4 to 8 hours depending on the colours. Reactive thinner AM9345 can be used at 5% maximum to help the adhesion on difficult substrates.

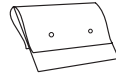
## ASPECT

Glossy



## SCREEN MESH

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



## SQUEEGEES

Single layer squeegee SR1 or HR1 type, 85 or 75 shore.



## DRYING/CURING

UV curing ink. Optimal cure performance of 150 and 250 mJ/cm<sup>2</sup> 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).

Evopack can be cured under UV LED if the following parameters are implemented :

- Minimum lamp power 12 watts/cm<sup>2</sup>
- Wavelength : 395 Nm

Make sure that the distance between the LEDs and the substrate corresponds to the indications given by the manufacturer of your equipment.



## CLEANING

Solvents H, ECO N or 93801

## THINNING

Standard thinner: ST178 (1 to 5%).

Flexible Thinner for tubes (to avoid harden the ink layer) AM9090 (1 to 5%).

## PRINTING EQUIPMENT

Automatic or semi-automatic machines equipped with flame treatment.

## PACKING

1 kg & 5 kg



## STORAGE

The EVOPACK 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.

<b>EVOPACK RANGE</b>			
<b>SOLID COLOURS - 700 RANGE</b>			
<b>ARTICLE DESIGNATION</b>	<b>REF.</b>	<b>CODE 1 KG - 1 L</b>	<b>CODE 5 KG - 5 L</b>
Mid Yellow	710	BPACK710K	
Golden Yellow	720	BPACK720K	
Mandarin	730	BPACK730K	
Vermillion	740	BPACK740K	
Dark Red	750	BPACK750K	
Pink	760	BPACK760K	
Violet	770	BPACK770K	
Primary Blue	780	BPACK780K	
Emerald Green	790	BPACK790K	
<b>BLACK, WHITE, BASE &amp; VARNISH</b>			
Mixing Black	701	BPACK701K	
Mixing White	702	BPACK702K	
Opaque Black	703	BPACK703K	
Opaque White	706	BPACK706K	BPACK706C
Black Super Opaque	6282	BPACKH6282K	
Base	095	BPACK095K	
Varnish	090	BPACK090K	
Mat Varnish	H5875	BPACKH5875K	
<b>ADDITIVES</b>			
Standard Thinner	ST178	D178L	D178Q
Flexible Thinner	AM9090		D9090Q
Reactive Thinner	AM9345	D9345L	D9345Q
Hardener	ST305	BDIV305K	

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.