

# Monoplak

Visual Communication, Displays, POP...

## APPLICATIONS

This ink series is specially designed for printing on a large variety of plastic substrates.

## SUBSTRATES

- Large variety of plastic substrates

## BENEFITS

- Ready to use
- Very low residual odour
- Good adhesion on the most used plastic substrates

## INK ADHESION

When printing on polypropylene sheets, check that the surface tension is at least at 40 dynes / cm. Otherwise, the use of AM9192 hardener in an amount of 1 to 3% is imperative.

**Important:** This ink series is designed to minimize any overlay problem, including inter-layer adhesion, especially when printing process colours.

If water and humidity resistance are requested, it is imperative to use hardeners AM9192 or ST305 (1 to 3%). In the case of prolonged outdoor resistance, use Uviplak RI series.

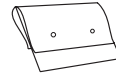
## ASPECT

Glossy finish



## SCREEN MESH

With this ink series, it is possible to use mesh 140 to 165 threads/cm (355 threads to 420 threads/inch). In this case, some base must be added to the ink in order to allow full curing. There is no limit of the base percentage that can be added. On the other hand, the use of fine mesh (165 to 180 threads/cm or 420 threads to 450 threads/inch) will decrease the ink deposit and allow a higher curing speed. The strong pigmentation of this ink allows to do so.



## SQUEEGEES

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/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).



## CLEANING

Solvents ECO N, 93801

## THINNING

If necessary, it is possible to adjust the ink viscosity by adding ST 178 thinner without exceeding 5%

## INK COVERAGE:

Approximately 60 to 70 sqm per kg with 150 threads/cm mesh (645 to 750 sq/feet/with a 380 mesh) These are average values depending on printing variables affecting ink film thickness and coverage (Machine setting, mesh count and environment)

## RINTING EQUIPMENT

Semi-automatic or automatic machines.

## PACKING

1 kg & 5 kg



## STORAGE

The MONOPLAK 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.

## MONOPLAK INK RANGE SOLID COLOURS - 700 RANGE

ARTICLE DESIGNATION	ARTICLE CODE
	REF.
Mid Yellow	710
Golden Yellow	720
Mandarin	730
Vermillion	740
Dark Red	750
Pink	760
Violet	770
Primary Blue	780
Emerald Green	790
<b>BLACK, WHITE, BASE &amp; VARNISH</b>	
Mixing Black	701
Mixing White	702
Opaque Black	703
Super Opaque White	706
Base	095
Varnish For Powder	091
<b>PROCESS COLOURS</b>	
Cold Yellow 6/7L	430
Warm Yellow 5/6L	440
Magenta 7/8L	420
Cyan	450
Black	410
Thixo Base	098
<b>ADDITIVES</b>	
Standard Thinner	ST178
Hardener	ST305
Hardener	AM9192

*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.*

