UV screen Printing ink

Polyglass series

Fast UV curing ink. Excellent adhesion on different types of glass (coated, non-coated...)

**Application**
The Polyglass series is a UV high gloss two component ink for printing on glass and ceramics. Suitable for a variety of applications: bottles (frosted glass and raw glass), some pre-treated or not pre-treated cosmetic containers, drinking glasses, glass for interior use, furniture, mirrors, slot machines, automobile, glassware (vases, candle holders, ashtrays ...).

**Advantages**
- 300 cycle’s dishwasher resistance
- Suitable for high printing speeds
- Excellent resistance to alcohol and alcoholic products (beer, brandy, perfume ...)
- Before use, add 4% hardener AM9192 and stir well.
- Mixture pot life is around 10 hours if kept in a dark, dry and well-aired environment at a temperature between 15-25°C (59-77°F).
- Adhesion and resistance to abrasion and scratch on chemically treated frosted glass and raw glass with almost no treatment (hot and cold) and / or flamed. Resistance to water, ice and freezer is obtained after 24 hours. Resistance to boiling water (20 min).
- Resistance to G1 simulator.

**Additives**
- ST178: 1 to 10%, to reduce ink viscosity
- In case of levelling issues, add 0.5 to 1% of tension corrector ST155
- Before use, add 4% hardener AM9192

**Ink adhesion**
For good adhesion, a uniform surface energy > 44 mn/m is generally necessary. The glass surface must be free of graphite, silicone, dust or grease or other residues (such as fingerprints).

On glasses that have undergone "cold end" treatment (anti-scratch PE varnish coating), a flame treatment should be performed. Although they are not necessarily required, the adhesion of the ink is of course reinforced by silicate glass pre-treatments (Uvitro®, Arcotec®, Pyrosil®, varnish spray ...). A thermal post-treatment (hot air or IR) will accelerate the action of the hardener and improve adhesion and scratch resistance. The printing technical requirements depend on the areas of use, it is thus necessary to check the adjustment of the inks to these specifications.

**Aspect**
Very high gloss

**Printing Equipment**
Semi-automatic or automatic machines

**Screens**
120 and 150 (threads/cm)

**Squeegees**
Single, double or triple durometer polyurethane blades with hardness between 85 and 75 shores.

**Drying**
A steam UV medium pressure mercury lamp (180-200 W / cm) prints approximately 4500 pieces / hour. White, opaque and metallic colours cure more slowly (about 3000 pieces / hour).

Recommended dose: 175-250 mJ / cm² irradiance of 600 mW / cm². UV drying speed depends on the quality of the UV drying unit (power and lamp age, state of the reflector, focus ...), the ink deposit, the colour of the glass and the number of UV drying units.

**Cleaning**
Solvents H or ECO N

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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

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 curing process; 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.

Hygiene and Security
Printing inks and related products made by Encres Dubuit contain no substances of very high concern (SVHC) candidate for authorization (to June 15, 2015) and comply with the requirements of Directives 2011/65 / EU (RoHS) and 94/62 / EC (heavy metal concentration levels present in packaging). For more information about our regulatory compliance, thank you to consult our Eco System document, available on request.

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<tr>
<th>POLYLASS Range</th>
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<tbody>
<tr>
<td><strong>Solid Colours – 700 Range</strong></td>
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<tr>
<td>Ref</td>
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<tr>
<td>Mid Yellow 710</td>
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<td>Gold Yellow 720</td>
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<td>Mandarin 730</td>
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<tr>
<td>Vermillion 740</td>
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<td>Dark Red 750</td>
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<td>Pink 760</td>
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<td>Violet 770</td>
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<td>Primary Blue 780</td>
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<td>Emerald Green 790</td>
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<tr>
<td><strong>Black, White, Base and Varnish</strong></td>
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<td>Ref</td>
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<tr>
<td>Mixing Black 701</td>
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<tr>
<td>Opaque Black 703</td>
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<td>Mixing White 702</td>
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<tr>
<td>Opaque White 706</td>
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<tr>
<td>Base 095</td>
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<tr>
<td>Varnish for powder 091</td>
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<tr>
<td><strong>Additives</strong></td>
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<tr>
<td>Standard Thinner ST178 D178.L (1 litre)</td>
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<tr>
<td>Hardener AM9192 E9192</td>
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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.

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