UV screen Printing ink

Uviglass series

Fast UV curing ink; Very high gloss
Excellent adhesion on different types of glass (coated, non-coated…)

**Application**
This ink series is designed for printing on pre-treated packaging and container glass:
- Drinking bottles
- Pre-treated cosmetic containers.
- Pre-treated restaurant glass such as drinking glass, ashtrays…
- Pre-treated glass for indoor use, such as slot machines, mirrors, glass for furniture.

**Advantages**
300 cycle’s dishwasher resistance
Suitable for high printing speeds
Good adhesion, high gloss, good hardness, great resistance to scratch and chemical agents on flamed glass, coated glass (epoxy, water based, UV, PU)
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). Water resistance is obtained after 24 hours. Because of a large diversity of substrates, we recommend that you carry out pre-production trials.
For good adhesion, a uniform surface energy > 44mn/m is generally necessary.

**Thinning**
ST178: 1 to 5%

**Ink adhesion**
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, a flame treatment should be performed. On coated glass, a flame pre-treatment immediately before printing generally increases the adhesion of the ink on the media.

**Aspect**
Very high gloss

**Impression**
Semi-automatic or automatic machines.

**Screens**
140 to 180 (threads/cm)

**Squeegees**
Single, double or triple durometer polyurethane blades with hardness between 65 and 75 shores.

**Drying**
Optimal cure performance of 150 and 250 mJ/cm² is generally achieved with a UV-curing unit of one or two 120 W/cm (305W/in) lamps at belt speeds of 10 to 20 m/min (32 to 65 feet/min).

**Cleaning**
Solvents H, ECO N or 93801.

**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, etc.

**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 a 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.

**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 NF T 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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### UVI GLASS Range

#### Solid Colours – 700 Range

<table>
<thead>
<tr>
<th>Ref</th>
<th>1kg</th>
<th>5kg</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mid Yellow</td>
<td>710</td>
<td>BUVG710K</td>
</tr>
<tr>
<td>Gold Yellow</td>
<td>720</td>
<td>BUVG720K</td>
</tr>
<tr>
<td>Mandarin</td>
<td>730</td>
<td>BUVG730K</td>
</tr>
<tr>
<td>Vermillion</td>
<td>740</td>
<td>BUVG740K</td>
</tr>
<tr>
<td>Dark Red</td>
<td>750</td>
<td>BUVG750K</td>
</tr>
<tr>
<td>Pink</td>
<td>760</td>
<td>BUVG760K</td>
</tr>
<tr>
<td>Violet</td>
<td>770</td>
<td>BUVG770K</td>
</tr>
<tr>
<td>Primary Blue</td>
<td>780</td>
<td>BUVG780K</td>
</tr>
<tr>
<td>Emerald Green</td>
<td>790</td>
<td>BUVG790K</td>
</tr>
</tbody>
</table>

#### Black, White, Base and Varnish

<table>
<thead>
<tr>
<th>Ref</th>
<th>1kg</th>
<th>5kg</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mixing Black</td>
<td>701</td>
<td>BUVG701K</td>
</tr>
<tr>
<td>Opaque Black</td>
<td>703</td>
<td>BUVG703K</td>
</tr>
<tr>
<td>Mixing White</td>
<td>702</td>
<td>BUVG702K</td>
</tr>
<tr>
<td>Opaque White</td>
<td>706</td>
<td>BUVG706K</td>
</tr>
<tr>
<td>Base</td>
<td>095</td>
<td>BUVG095K</td>
</tr>
<tr>
<td>Varnish for powder</td>
<td>091</td>
<td>BUVG091K</td>
</tr>
</tbody>
</table>

#### Additives

<table>
<thead>
<tr>
<th>Ref</th>
<th>1kg</th>
<th>5kg</th>
</tr>
</thead>
<tbody>
<tr>
<td>Standard Thinner</td>
<td>ST178</td>
<td>D178.L (1 litre)</td>
</tr>
<tr>
<td>Hardener</td>
<td>AM9192</td>
<td>E9192</td>
</tr>
</tbody>
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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.