The mono-component UViprim GL range is based on a DUAL CURE system (UV light + oven drying). It is dedicated to a high speed screen printing on glass, with or without coating, for interior use. The dual cure system makes these inks insensitive with the extra thickness obtained on objects having a broad dimensional tolerance. Most of all, UViprim GL inks are glossy, highly reactive and chemically resistant.

**Use**

**Characteristics**
- Ready to use
- Glossy
- Resists on dish washing
- Heavy metal free
- Basic shades are intermixable and allow the matching of color reference systems like Pantone®
- High reactivity
- Resistance to alcohol, G1 test blend
- Dual cure: UV light + oven drying

**Choice of the mesh:**
Directly function of the printing speed and the required opacity. Generally, we will use a 165, 150, 140 down to 120 mesh fabric tended to 16N. The diameter of the wire will be selected to obtain the best compromise between the deposit, the solidity and the definition.

**Supports and pretreatments**
The quality of glass and its chemical structure are related to its manufacturing method. Its surface quality will have to be perfect i.e. free from release agent or any other residue (finger marks, dust, grease, silicone etc).

**Untreated glass:**
A flame treatment (surface tension > 44 mN/m) according to the UVitro® process (trade mark of ISIMAT GmbH) is necessary to obtain maximum performances.

**Coated glass:**
Many glass containers are covered with a water or solvent-based coating to modify the surface aspect (colour, opalescent, scratch resistance...): a flame treatment, right before printing, is then essential to obtain a sufficient surface tension and thus a good adherence.

**Curing conditions**
Being based on a DUAL CURE system, this ink dries in two steps: under UV light, to obtain a dry ink surface and to authorize the immediate overprinting of it, and with hot air to obtain optimal chemical and physical resistances.

**UV DRYING:** at a printing speed of 3600 prints/h, use a lamp of 180-200W/cm minimum.

**OVEN DRYING:** only one 20 min at 165°C passage for the whole of the decoration.

The performances of the system are function of the material and the products used. Its industrial validation is imperative before final production run.
The **UViprim GL**inks comply with EN 71-3 standard.

### Specifications

- **Appearance:** glossy
- **Average density:** 1.2
- **Viscosity:** 2 - 3 Pa.s
- **Opacifying power:**
  - Coloriflex system: low
  - Opaque inks: excellent
  - White, black: excellent
- **Thinner:** 31965*, 5 % maxi
- **Cleaning solvent:** 2891, 2899, NS-91 and NS-99
- **Expiry:** refer to the label

### Toxicology

**Appearance:**
- **Glossy**

**Average density:**
- **1.2**

**Viscosity:**
- **2 - 3 Pa.s**

**Opacifying power:**
- **Coloriflex system:** low
- **Opaque inks:** excellent
- **White, black:** excellent

**Thinners:**
- **31965***, 5 % maxi

**Cleaning solvents:**
- **2891, 2899, NS-91 and NS-99**

**Expiry:** refer to the label

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Non contractual colours and pictures

On simple request, we can propose you a color panel card displaying accurate shades. Pantone® colour matching

All the marked inks with an asterisk *, can be colour matched according to the Pantone® colour guide through the online Colour Matching System developed by Tiflex.

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**Additives**

- **Opaque white**
- **Opaque lemon**
- **Opaque orange**
- **Opaque red**
- **Opaque green**
- **Opaque black**

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**OPAQUE BASE:** its use in inks lightens the colour while increasing the reactivity and opalescence by transmission with a loss of brilliancy.

**METALLIC INKS:** to use the diluting base with our metallic pastes in a 85/15 or 80/20 proportion. The shelf-life of the blend is of 4 hours.

- **Photoinitiator:** 1-3%
- **Gelling agent:** 0-1%
- **Thickener powder:** 0-1%

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PANTONE® colour guide

All the marked inks with an asterisk *, can be colour matched according to the Pantone® colour guide through the online Colour Matching System developed by Tiflex.