



# SCREEN PRINTING

## UV INK

### UViprim FL

*Ink with UV drying dedicated to printings on rigid or semi-rigid bottles of flamed polyethylene or polypropylene.*

*Excellent stability of the ink in the screen with a high reactivity during the curing process. **NVP FREE.***

#### Use

##### Substrate treatment

**UViprim FL** is formulated to print on PE and PP used in the bottle industry. The surface tension is very low, it is necessary to flame the substrate before printing (minimum 42mN/m). The surface to be printed needs to be clean without grease particles.

##### Polymerization

**UViprim FL** is a highly-reactive single-component ink. Under a lamp of 160 - 200 W/cm, the ink cures at a rate of between 2500 and 4000 units per hour.

The tape resistance test should only be performed after the complete cooling of the bottle at ambient temperature.

The overlaying of colours must be done in line on multi-colour printing machine.

Adding 5% of hardener (representing 5% of the ink weight) improves water resistance and solvents resistance, as well as encouraging a better adherence to difficult substrates. The effectiveness of the hardener can be observed 24 hours after printing.

The combination of the ink and the hardener mixture stable for 8 hours.

The speed of curing depends on numbers of parameters, including the thickness deposited and the opacity, colour and nature of the substrate.

Due to the various printing configurations, testing is essential before each new printing run.

##### Screens:

The mesh required will be from 140 to 180 threads/cm.

##### Dilution:

**UViprim FL** inks are ready to use. If the viscosity nevertheless needs to be reduced.












#### Specifications

- |                    |  |                        |                      |
|--------------------|--|------------------------|----------------------|
| ➤ Glossy:          | finish                                     | ➤ Resistance to light: | very good            |
| ➤ Average density: | 1,2  | ➤ Thinner (maxi 5%):   | 31965* or 31970NG*   |
| ➤ Viscosity:       | 10 Pa.s                                    | ➤ Cleaning solvents:   | 2881, 2891 and NS-91 |
|                    | Rheology suitable for high printing speeds | ➤ Expiry:              | refer to the label   |
| ➤ Covering power:  | 80 m <sup>2</sup> /kg                      |                        |                      |
|                    | with a 165 - 34 fabric                     |                        |                      |

\* diluent 31970NG : Skin irritation, Category 2 ; Eye irritation, Category 2, Skin sensitisation, Category 1

\* diluent 31965 : Skin irritation, Category 2 ; Eye irritation, Category 2 ; Skin sensitisation, Category 1 ; Specific target organ toxicity (single exposure), Category 3 ; Hazardous to the aquatic environment -Chronic hazard, Category 2

The **UViprim FL** inks comply with EN 71-3 standard.

STANDARD COLOURS		Ref. 1 kg
	Thinner white*	3762085
	Lemon*	3762002
	Gold yellow*	3762004
	Orange*	3762006
	Scarlet*	3762007
	Cherry red*	3762008
	Cyclamen*	3762014
	Purple / Violet*	3762016
	Process blue*	3762027
	Reflex blue*	3762025
	Emerald green*	3762033
	Black*	3762044

Non contractual colours and pictures  
On simple request, we can propose you a color panel card displaying accurate shades.

STANDARD COLOURS		Ref. 1 kg
<b>OPAQUE</b>		
Opaque white AR		3762090
Opaque white		3762080
Opaque black		3762081
<b>BASE</b>		
Thinner base*		3762066
<b>ADDITIVES</b>		
Photoinitiator, per 100 g		38C0595
Powder thickener, per 250 gr		3761295
Catalyst, 1 liter tin		3822090

## 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.



IMP. TIFLEX 05.02.2018 - Non contractual colours and pictures - Only our Web-site is authorised to give real-time information about our inks. Paper notices are considered unwritten and no longer engage our company's responsibility once they are updated on our Web-site. Our responsibility can be engaged only if the customer has based his position on the information published on our Web-site. In all cases, the user should carry out validation tests under his own conditions before using our inks for his production. The safety data sheets are available free at: [www.tiflex.com/fds](http://www.tiflex.com/fds)



CS 30200 - 01450 PONCIN - Tél. +33 (0) 4 74 37 33 80/97  
international@tiflex.fr - [www.tiflex.com](http://www.tiflex.com)