

## TECHNICAL SPECIFICATIONS

### PRODUCT DESCRIPTION

UVILABEL V2 is a NON CMR UV ink.

### APPLICATIONS

Printing on paper labels, polyethylene, and top coated polypropylene.

The above-mentioned substrates may differ according to their origin. It is therefore essential to carry out preliminary tests.

### PRINTING

Flatbed roll-to-roll machines for continuous label printing.

### MAJOR ADVANTAGES

- Flexible and shaping resistant ink.
- Extremely fast drying.
- Polymerization by exposure to UV radiation.
- Outstanding stability on the screen.
- Suitable for hot foil stamping.

### ASPECT

Glossy on non-absorbent substrates.



<b>Substrate</b>	Paper, Polyethylene and top coated polypropylene
<b>Mesh</b>	355 to 420 threads/inch (140 to 165 threads/cm)
<b>Emulsion</b>	All types of solvents and UV resistant emulsions
<b>Squeegee</b>	75shA
<b>Drying</b>	Under UV radiation
<b>Diluent and additive</b>	Thinner UV201 Fast thinner LA202V2
<b>Cleaning</b>	77 BIO
<b>Storage</b>	12 months stored between +5°C et +35°C

## COLOR RANGES & PACKAGING

### BASIC COLORS

LA102 V2 MIXING BASE	1 KG - 5 KG
LA404 V2 ORANGE	1 KG - 5 KG
LA406 V2 GOLDEN YELLOW	1 KG - 5 KG
LA501 V2 YELLOW	1 KG - 5 KG
LA612 V2 GREEN	1 KG - 5 KG
LA701 V2 VIOLET	1 KG - 5 KG
LA719 V2 BLUE	1 KG - 5 KG
LA801 V2 RED	1 KG - 5 KG
LA810 V2 CARMIN	1 KG - 5 KG
LA811 V2 PINK	1 KG - 5 KG
LA902 V2 BLACK	1 KG - 5 KG

### OPAQUE BLACK / WHITE

LA905 V2 OPAQUE BLACK	1 KG - 5 KG
LA103 V2 OPAQUE WHITE	1 KG - 5 KG
LA103R V2 OPAQUE WHITE (stencil)	5 KG

### VARNISH

LA 003W V2	5 KG
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### DILUENTS AND ADDITIVES

THINNER UV201	1 KG
FAST THINNER LA202V2	1 KG

## INSTRUCTIONS FOR USE

### SCREEN

All mesh types from 140 to 165 threads/cm. Larger mesh openings (120 threads/cm) should only be used for printing metallic shades to ensure ink polymerization. Emulsions and films must be solvent resistant.

### SQUEEGEE

Polyurethane, hardness 75 shA Shore minimum, minimal slope and good sharpening.

### PERFORMANCE

With a 150 threads/cm fabric, 1kg will cover about 70 to 80m<sup>2</sup>.

### DILUTION

UVILABEL inks are ready-to-use and can be diluted up to a maximum of 5% with the UV201 thinner.

### MIXING

UVILABEL V2 inks can be mixed with LABELMAT V2 inks to obtain a satin look.

### VARNISH-BASE

The addition of LA003W V2 base increase transparency without altering viscosity.

### DRYING

UVILABEL ink will polymerize under a UV dose of around 60 to 100mJ/cm<sup>2</sup>, depending on the mesh used and the color. This ink range is compatible with hot stamping.

### PRODUCT PROPERTIES

On substrates with low surface energy, the treatment must be higher than 41 dynes/cm.

Complete polymerization is achieved within 24 hours, and adhesion and resistance will continue to improve over time. After passing through UV lamps and then cooling the substrate completely to room temperature, the printed ink film must withstand the 3M810 tape test after squaring.

### HANDLING

Homogenize before use. After extraction of the ink, open containers need to be carefully and promptly closed. Artificial or natural light can cause the start of polymerization and lead to the formation of a skin on the surface. For this reason, it is advisable to work in a low lighting or safelight environment.

### SCREEN CLEANING

Cleaning with the 77BIO bio solvent is recommended.

## WASTE MANAGEMENT

Packaging contaminated with hazardous substances. Do not dispose into the environment. VFP Ink Technologies encourages all users to develop a responsible environmental policy.

## HEALTH AND SAFETY

Refer to the MSDS. We recommend that you wear Personal Protective Equipment recommended by the MSDS and follow its handling precautions.

## STORAGE

12 months in its original packaging stored between +5°C and +35°C

**Guarantee reserves:** Although the data in this leaflet have been established after careful testing, it is provided as a guide; no liability can arise from this for VFP, it being understood that we advise you to carry out preliminary tests before any commercial draw. No seller, representative or agent has the right to give any guarantee or insurance, which would be in contradiction with what is said above. In any case, refer directly to our general conditions of sale.