

TECHNICAL SPECIFICATIONS

PRODUCT DESCRIPTION

The LABELMAT 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 and rotary roll-to-roll machines for continuous label printing.

MAJOR ADVANTAGES

- Flexible and shaping / cutting resistant ink.
- Fast drying.
- Outstanding stability on the screen.
- Suitable for hot foil stamping.
- Suitable for embossing.

APPEARANCE

Matte (less than 20% of brilliance).
 Do not use on a matte substrates or white glassine.
 As these surfaces are porous, the ink gives a mottled appearance.

Substrates	Paper, Polyethylene and top coated polypropylene.
Mesh	355 à 420 threads/inch (140 à 165 fils/cm)
Emulsion	All types of solvent and UV resistant emulsions
Squeegee	A75 shore minimum
Drying	60 to 100 mJ/cm ²
Diluent & Additive	Thinner UV201 Fast thinner LA202V2
Cleaning	77BIO
Storage	12 months stored in between +5°C and +35°C

COLOR RANGE & PACKAGING

BASICS COLORS

LM102V2 MIXING BASE	1 KG / 5 KG
LM404V2 ORANGE	1 KG
LM406V2 GOLDEN YELLOW	1 KG
LM501V2 YELLOW	1 KG
LM612V2 GREEN	1 KG
LM701V2 VIOLET	1 KG
LM719V2 BLUE	1 KG
LM801V2 RED	1 KG
LM810V2 CARMIN	1 KG
LM811V2 PINK	1 KG
LM902V2 BLACK	1 KG / 5 KG

OPAQUE BLACK / WHITE

LM905V2 OPAQUE BLACK	5 KG
LM103V2 OPAQUE WHITE	5 KG

VARNISH

VARNISH LM003V2	5 KG
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DILUENT & ADDITIVE

FAST THINNER LA202V2	1 KG
UV201	1 KG

INSTRUCTIONS FOR USE

Screen

All mesh types from 140 to 165 threads/cm.
Emulsions and films must be solvent resistant.

Squeegees

Polyurethane Shore A75 minimum hardness, minimal slope, and good sharpening.

Performance

With a 150 threads/cm fabric, 1kg about 70 to 80m²..

Dilution

LABELMAT V2 inks are ready-to use and can be diluted up to maximum of 5% with the UV201 thinner.

Mixtures

LABELMAT V2 inks may be mixed with UVILABEL inks for a satin look.

Varnish Base

The addition of the LM003 base increase transparency without altering viscosity.

Drying

Labelmat V2 ink will polymerize under a UV dose of around 60 to 100 mJ/cm² depending the mesh used and the color. Curing can be accelerated by adding 3 to 5% of LA202V2. This addition will also increase gloss.

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.