LABELMAT V2

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.
· 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 will give a mottled appearance.

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

COLOR RANGES & PACKAGING

OPAQUE BLACK / WHITE

LM905V2 OPAQUE BLACK	5 KG
LM103V2 OPAQUE WHITE	5 KG

VARNISH

VERNIS LM003V2	5 KG

DILUENTS AND ADDITIVES

THINNER UV201	1 KG
FAST THINNER LA202V2	1 KG

BASIC COLORS AVAILABLE UPON REQUEST

INSTRUCTIONS FOR USE

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

SQUEEGEE
Polyurethane Shore A75 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.

MIXING
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