

TECHNICAL SPECIFICATIONS

PRODUCT DESCRIPTION

The PLUTON V2 is a NON CMR UV ink.

APPLICATIONS

Printing on polyethylene, polypropylene treated in plate or micro-fluted form with surface tension greater than 41 dynes/cm, rigid and flexible PVC, adhesive vinyls.

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

PRINTING

All types of machines: semi-automatic, ¾ automatic and automatic.

MAJOR ADVANTAGES

- Multi-support ink.
- ONE-COMPONENT ink ready to use.

ASPECT

Glossy.



Substrate	PP/treated PE, PVC, adhesive vinyl
Mesh	330 to 450 threads/inch (140 to 180 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	24 months stored between +5°C et +35°C

COLOR RANGE & PACKAGING

BASIC COLORS

PN102 V2 WHITE	1 KG
PN404 V2 ORANGE	1 KG
PN406 V2 GOLDEN YELLOW	1 KG
PN501 V2 LEMON YELLOW	1 KG
PN612 V2 GREEN	1 KG
PN701 V2 VIOLET	1 KG
PN719 V2 PERMANENT BLUE	1 KG
PN801 V2 RED	1 KG
PN810 V2 CARMINE	1 KG
PN811 V2 PINK	1 KG
PN902 V2 BLACK	1 KG

OPAQUE BLAKC / WHITE

PN905 V2 OPAQUE BLACK	1 KG - 5 KG
PN103 V2 OPAQUE WHITE	1 KG - 5 KG

VARNISH

PN003 V2 CLEAR VARNISH	1 KG - 5 KG
PNBILLE V2	1 KG

DILUENTS AND ADDITIVES

THINNER UV201	1 KG
FAST THINNER LA202V2	1 KG

INSTRUCTIONS FOR USE

SCREEN

All mesh types from 140 to 180 threads/cm.
For the PNBILLE V2, a 90 threads/cm mesh is recommended.
Emulsions and films must be solvent and UV resistant.

SQUEEGEES

Polyurethane 75shA.

PERFORMANCE

With a mesh of 150*33, 1kg will cover about 70 to 80m².

DILUTION

PLUTON V2 inks are ready-to use and can be diluted up to maximum of 5% with the UV201 thinner.
It is possible to speed up drying by adding between 1% and 3% of LA202V2.

MIXING

The inks of PLUTON V2 color ranges are all miscible. On the other hand, opaque and extra opaque colors are not recommended for making shades.

BASE-VARNISH

The addition of the PN003V2 varnish allows the color density to be adjusted. Depending on the percentage, this addition can significantly reduce the external resistance of the ink and lower the viscosity.

DRYING

Pluton V2 ink will polymerize under a UV dose between 60 and 80 mJ/cm². The opaque and extra opaque colors need a UV dose of 80 mJ/cm² and 100 mJ/cm².

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.
Pluton V2 ink is not intended to be double-sided adhesive.

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

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

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