

TECHNICAL SPECIFICATIONS

PRODUCT DESCRIPTION

The UVICARD TF ink is a UV ink.

APPLICATIONS

Rigid PVC in the card area.

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, % automatic and automatic (Cylinder).

MAJOR ADVANTAGES

- Fast drying.
- Offset printable.
- Accept lamination.
- Embossable.

APPEARANCE

Glossy.



Substrate	PVC, RPVC
Mesh	200 to 230 threads/inch (79 to 90 threads/cm)
Emulsion	All types of solvents and UV resistant emulsions
Squeegee	65shA or 75shA
Drying	Solvent evaporation
Diluent and additive	Ready to use
Cleaning	77 BIO
Storage	12 months stored between +5°C et +35°C

COLOR RANGES & PACKAGING

METALLIC GOLD

CC3001 TF GOLD	1 KG - 5 KG
CC3014 TF GOLD	1 KG - 5 KG
CC3600 TF GOLD	1 KG - 5 KG
CC3601 TF YELLOW GOLD	1 KG - 5 KG
CC3602 TF GREEN GOLD	1 KG - 5 KG
CC3603 TF RED GOLD	1 KG - 5 KG

METALLIC SILVER

CC302 TF MEDIUM SILVER	1 KG - 5 KG
CC303 TF LARGE SILVER	1 KG - 5 KG
CC9009 TF FINE SILVER	1 KG - 5 KG

PEARL

CC311 TF PEARL FINE	1 KG - 5 KG
CC312 TF PEARL MEDIUM	1 KG - 5 KG
CC313 TF PEARL LARGE	1 KG - 5 KG

BASIC COLORS

CC102 TF WHITE	1 KG
CC404 TF ORANGE	1 KG
CC406 TF GOLDEN YELLOW	1 KG
CC501 TF LEMON YELLOW	1 KG
CC612 TF GREEN	1 KG
CC701 TF VIOLET	1 KG
CC719 TF BLUE	1 KG
CC801 TF RED	1 KG
CC810 TF CARMINE	1 KG
CC811 TF PINK	1 KG
CC902 TF BLACK	1 KG

TRANSPARENT COLORS

CC5601 TF TRANS YELLOW	1 KG
CC6600 TF TRANS GREEN	1 KG
CC7602 TF TRANS BLUE	1 KG
CC8003 TF TRANS BROWN	1 KG
CC8602 TF TRANS RED	1 KG

OPAQUE BLACK AND WHITE

CC905 TF OPAQUE BLACK	1 KG - 5 KG
CC103V3 TF* OPAQUE WHITE	5 KG
CC107CA TF* OPAQUE WHITE	5 KG

VARNISHES

CC0003 TF PEARL VARNISH	1 KG - 5 KG
CC001 TF BASE INCOLORE	1 KG - 5 KG

DILUENTS & ADDITIVES

UV201 THINNER	1 KG - 5 KG
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PRIMERS & ADHESIVES

UVPLA TF PRIMER VARNISH	5 KG
CC0006 TF PVC PRIMER	5 KG
CC0007 TF ADHESIVE PVC/PVC	5 KG
CC0008 TF PET PRIMER	5 KG

***Non conforme TSCA**

INSTRUCTIONS FOR USE

SCREEN

All mesh from 63 to 140 thread/cm.
Mesh size 63 to 100 threads/cm for printing metallic gold, silver and nacre shades.
Mesh 100 to 120 threads/cm for printing opaque whites.
Mesh 120 to 140 threads/cm for printing basic colors.
Emulsions and films must be solvent/UV resistant.

SQUEEGEE

Polyurethane 75shA.

PERFORMANCE

With a 90 threads/cm fabric, 1kg covers about 30 to 40m².
With a 140 threads/cm fabric, 1kg covers about 65 to 75m².

DILUTION

UVICARD TF inks can be diluted up to maximum 5% with thinner UV201.

MIXING

The different colors and bases can be mixed to obtain intermediate tones.

BASE-VARNISH

The addition of CC001 Colorless Base makes it possible to adjust the shades intensities.
CC003 varnish will be used for pearly shades.

PRIMERS AND ADHESIVES

Depending on the supports it may be necessary to use a primer.
CC0006 (mesh 140 threads/cm, drying 120 mJ/cm²) to improve the adhesion of Offset inks on PVC.
CC0008 (mesh 180 threads/cm, drying 140 mJ/cm²) to adhere to PET.
UVPLA (mesh 180 threads/cm, drying 60 mJ/cm²) to obtain adhesion on PLA.
To improve the cohesion of the card, the use of a CC0007 PVC/PVC adhesive (mesh 180 threads/cm, drying 120 mJ/cm²) between 2 PVC sheets may be necessary.

DRYING

UVICARD TF ink will polymerize under UV dryers, Mercury lamp.
We recommend a UV dose of 100 to 180 mJ/cm² depending on the references.
To avoid deformation of the support, it is possible to use 2 UV lamp.

OVERPRINT

UVICARD TF ink accepts offset UV ink marking intended for lamination.

LAMINATION

It is carried out at a minimum between 130° and 140° for 5 to 15 minutes and with the use of a coated overlay film.
Performance examples: CC inks printed on 400 µ PVC, laminated with a 60µ coated overlay in an Oasys OLA6H type device, and tested with a Lloyd LS1 dynamometer equipped with the TG113 accessory allowing peeling tests to be carried out at 90°, have a peel strength of 10 N/cm on average.

PRODUCTS PROPERTIES

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

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.

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.