

Nazdar® has partnered with VFP to become the exclusive United States supplier of UVICARD® UV curable screen ink to the U.S. Plastic Card Manufacturing Market.

UVICARD® is the first UV Screen Ink that is stable during the heat lamination process associated with the Plastic Card Market.

# UVICARD®



- New, ready to use, UV screen ink for PVC & PETG
- 24 months shelf life with opaque white & base
- 12 months shelf life on all other colors
- Up to 12 newton peel strength
- Suitable for offset overprinting
- Accepts embossing
- VOC free
- Edge to edge printing without peeling or chipping



# UVICARD®

UV INK FOR PLASTIC CARDS

VFP UVICARD is the first UV Screen Ink that is stable during the heat lamination process associated with the Plastic Card Market. UVICARD® is a ready-to-use, single component UV ink that passes all credit card specifications. UVICARD® ink can be purchased in white, black and specific metallic colors. Color matched metallic spot colors are available.

Advantages of the UVICARD® UV ink over solvent or aqueous inks are:

- All colors are VOC free
- Cards can be stacked, offset printed and laminated immediately after UV exposure.
- Single component, ready to use
- UV dryers typically use less energy than conventional dryers
- Does not dry in the screen
- 100% solid ink deposit

VFP's UVICARD®CC107CAV2 Opaque White has been tested against competitors' solvent inks. The test revealed that the UVICARD® White is more opaque in one print of white than two or three prints of solvent whites. This testing was done using a 355 mesh for the UVICARD® White and a 230 mesh for the solvent based ink. What this means to the customer is better results, less ink usage and faster production capabilities using the UVICARD® ink.

### About VFP Ink Technologies:

VFP Ink Technologies ([www.vfp-ink.com](http://www.vfp-ink.com)) is a subsidiary company of Tripette & Renaud Group based in France since 1836. VFP is a manufacturer of screen printing, pad printing and digital inks and is internationally renowned for their credit card inks.

### About Nazdar Ink Technologies:

Nazdar Ink Technologies, the leading manufacturer of screen printing and wide-format inkjet ink in North America, is the manufacturing division of Nazdar.

Nazdar was started in Chicago, Illinois in 1922 and has been a leader in printing ink technology. Nazdar's headquarters is located in Shawnee, Kansas, USA.



Nazdar Ink Technologies division offers their world class services along with exclusive U.S. distribution of the UVICARD® ink . Nazdar offers color matching, technical services and consulting services for customers looking to move to UV technology, or just looking to improve efficiency and productivity in their shop.

**Nazdar Contacts:**

Corporate Phone: 913-422-1888

Nazdar Customer Service: 1-800-767-9942

e-mail: [NazdarOrders@nazdar.com](mailto:NazdarOrders@nazdar.com)

Nazdar Ink Technologies | 8501 Hedge Lane Terrace | Shawnee, KS 66227 |  
1-913-422-1888 | [www.nazdar.com](http://www.nazdar.com)



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to receive more information

# UVICARD®

## UV INK FOR PLASTIC CARDS

- **Ink Type:** UV curing ink
- **Available Colors:** White, black, metallic and specific colors
- **Finish:** Glossy
- **Applications:** PVC & PETG sheet from 5 mil to 16 mil
- **Major advantages:** Most inks, including metallics colors, are ready to use (one component) and can be kept in a closed pail up to 12 months from manufactured date. Uvicard inks are specifically formulated to be compatible with offset overprinting, lamination and embossing. Opaque White can be kept in a closed pail up to 24 months from manufactured date.
- **Printing equipment:** Cylinder screen printing equipment

### Technical printing characteristics

- **Screen**
  - Mesh: 305 to 460 thread/inch mesh. In under 380 thread/inch mesh larger opening to be avoided in order to maintain good curing conditions. Mesh 156 to 230 thread/inch for metallic colors printing.
  - Stencil: Film and emulsion have to be solvent resistant.
  - Cleaning: We recommended VFP X2 or VFP X3 solvents.
- **Squeegee**

Polyurethane squeegee, minimum A-75 shore hardness with minimum slope and excellent sharpening.
- **Mixing**

Adding CC001V2 base to standard colors will increase transparency and will not modify the viscosity. Standard colors can be mixed together in order to obtain any specific colors.
- **Dilution**

Ready to use. However, dilution with up to 10% UV201 thinner is possible.
- **Curing**

Transparent colors printed in 305 to 460 mesh will polymerize from 80MJ/cm<sup>2</sup>. Metallic colors printed in 195 to 230 mesh will also polymerize at 80MJ/cm<sup>2</sup>. White CC107CAV2 in 305 to 380 mesh polymerize from 150MJ/cm<sup>2</sup>. To avoid any distortion of the substrate, UV belt should be set to run above 98 ft./min.
- **Overprinting**

UVICARD® ink accepts overprinting with offset ink designed for lamination application.
- **Lamination**

Between 265°F and 280°F for 5 to 15 minutes using an overlay film.
- **Coverage**

Using 230 thread/inch mesh (for metallic colors), 1kg of ink will cover 130 to 165 ft<sup>2</sup>.  
Using 355 thread/inch mesh (standard and process colors), 1 kg of ink will cover 245 to 280 ft<sup>2</sup>.

### Other characteristics

- **Handling**

Opened pails should be closed immediately after use. Exposure to artificial or natural light might cause the curing of the ink on the top of the container and create an ink crust
- **Storage**

Most inks, up to 12 months in closed pails kept between 41°F and 95°F. CC107CAV2 opaque white and CC001V2 Base have a 24 month shelf life.
- **Packaging**
  - 1 KG Containers
  - 5 KG Containers

#### Hygiene and safety:

Although the products chosen for use in formulating the CC ink are not specifically dangerous, they can produce allergic reactions on some particularly sensitive people. Ink or thinner stains on skin should be washed immediately using soapy water.

#### Limited Warranty:

Although the data indicated in this document have been established after thorough tests, they are only given as an indication. The Tripette & Renaud Image company cannot be held responsible in any way, it being understood that we recommend to make tests before starting any production run. No salesman, representative or agent is entitled to provide a guarantee or any insurance which might contradict the above statement.

**NAZDAR**  
INK TECHNOLOGIES

**VFP**  
Ink Technologies

U.S. Sales:  
**Nazdar Ink Technologies**  
8501 Hedge Lane Terrace, Shawnee, KS 66227  
Tel: 1-800-767-9942 – [www.Nazdar.com](http://www.Nazdar.com)