



NoriCard

Screen Printing Ink for Lamination of ID and Credit Cards

Area of Application and General Characteristics

NoriCard is a solvent-based screen printing ink suitable for printing on PVC, ABS and PETG core films used in card manufacturing.

NoriCard has excellent laminating properties with uncoated PVC and PETG overlay films at a temperature of 140 °C (285 °F) and good peel strength.

Range of Colors

The NoriCard metallic ink system includes four standard silver colors of different pigment particle sizes (from fine, middle-coarse and coarse). The transparent and satin gloss color shades serve to mix a wide spectrum of gold, copper and other metallic colors.

Standard Silver Colors	771	Silver Fine	Mesh 100-40 th/cm (255-40 th/inch)
	776	Silver Medium Coarse	Mesh 77-48 th/cm (195-48 th/inch)
	781	Silver Coarse	Mesh 77-48 th/cm (195-48 th/inch)
	786	Silver Coarse	Mesh 61-64 th/cm (156-64 th/inch)
Color Shades	093	Colorless	
	172	Yellow Transparent Satin Gloss	
	370	Red Transparent Satin Gloss	
	467	Pink Transparent Satin Gloss	
	567	Blue Transparent Satin Gloss	
	667	Green Transparent Satin Gloss	
	945	White	
948	Black Satin Gloss		
Effect Pigment Colors	093/022	Pearlescent Gold 3132	Mesh 77-48 th/cm (195-48 th/inch)
	093/023	Pearlescent Orange 3131	Mesh 77-48 th/cm (195-48 th/inch)
	093/024	Pearlescent Red 3124	Mesh 77-48 th/cm (195-48 th/inch)
	093/025	Pearlescent Lilac 3133	Mesh 77-48 th/cm (195-48 th/inch)
	093/026	Pearlescent Blue 3130	Mesh 77-48 th/cm (195-48 th/inch)
	093/027	Chameleon Turquoise-Purple 3135	Mesh 77-48 th/cm (195-48 th/inch)
	093/028	Chameleon Green-Red 3109	Mesh 77-48 th/cm (195-48 th/inch)
	093/029	Chameleon Green-Blue 3136	Mesh 77-48 th/cm (195-48 th/inch)
	093/030	Pearlescent Green 3134	Mesh 77-48 th/cm (195-48 th/inch)
	093/031	Pearlescent Silver 3120	Mesh 77-48 th/cm (195-48 th/inch)

Overprinting with Offset Inks

To improve the adhesion of offset inks when using NoriCard metallic colors it may be necessary to add 5 – 15 % of Offsetprimer "NoriCard 078 Colorless Turbid" to the formulation.

Offsetprimer

Screen printable NoriCard 078 can be used to enhance offset printability of plastic films. The Offset Primer provides a paper-like, absorbing surface.

NoriCard 078 Colorless Turbid Mesh 100-40 threads/cm (255-40 threads/inch)

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Thinning

Thinner M 213

Thinner M 217

Addition: 10 – 20 %

Stencil

Solvent resistant emulsions must be used. Excellent results during long production runs are achieved by using Pröll Diazo-UV-Polymer Emulsion Norikop 10 HQ.

Drying

NoriCard is physically drying by evaporation of the solvents. After tunnel drying at 50 °C (120 °F) further rack drying at 50 °C (120 °F) is recommended. The period of drying depends on fabric and ink thickness. The block resistance has to be tested under respective drying conditions, in particular on PETG core films.

Cleaning Screens and Utensils

UNI-CLEANER FP61 or UNI-REIN A III

Shelf Life

The shelf life stated on the label assures the ink's quality and refers to unopened original cans stored in a dry place at temperatures between 5 °C (40 °F) and 25 °C (75 °F).

Important

Allow the ink as well as all the auxiliaries to be added to adjust to room temperature in the closed container before use.

Printing results, to a large extent, depend on the substrate as well as the printing and application conditions. We recommend checking your printing materials under your conditions of use prior to any production runs. Materials that are supposed to be identical may vary from manufacturer to manufacturer and even from batch to batch. Some substrates may have been treated with or can contain sliding agents, antistatics or other additives which will impair the adhesion of the inks.

In general please refer to our technical leaflet "General Information on Screen Printing Inks" which may be downloaded from our website www.proell.de, click Downloads ⇒ Solvent-Based Screen Printing Inks.

Before starting a production run, it is necessary to test samples of each newly designed part systematically with regard to the specifications for the intended use (e.g. climatic chamber, resistance, etc.).

The information contained in the technical information/instruction sheets or other product information sheets is based on product testing conducted by Pröll. Because printing and environmental factors critically affect each individual ink application, the above mentioned information and instructions represent only general recommendations concerning product characteristics and directions for use and should not be construed as representing express warranties regarding the product. The information and instructions in no way release the purchaser from his obligation to verify and test the inks and their application for the specific request, regarding: product characteristics, weather resistance, mixing proportions, gloss, thinning, special mixtures, printability, drying speed, cleaning, effects on or of other materials to be contacted and safety precautions. All details contained in the instruction sheet "General Information on Screen Printing Inks" are to be considered. The further manufacture and use of products containing our inks by the purchaser takes place beyond our control, and the responsibility for further application and use of our product resides solely with the purchaser. Pröll disclaims any warranties, express or implied.

This information supersedes all previous technical information.