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NoriCard

Screen Printing Ink for the Manufacture of ID and Credit Cards

Area of Application and General Characteristics

NoriCard is a solvent based screen printing ink suitable for printing onto PVC core-films used in card manufacturing.

It has excellent laminating properties with PVC overlay-films at temperatures greater than 140 °C (284 °F) and shows good peel strength.

Important

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 before performing 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 contain sliding agents, antistatics or other additives which may 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 Download ⇒ Screen Printing Inks ⇒ General information on screen printing inks.

Range of Colors

The NoriCard ink system is based on four silvers of different pigment particle size from fine, middle-coarse and coarse. The transparent and satin gloss colored inks are used for color matching various gold and copper shades.

Metallic Colors

NoriCard 771 Silver Fine, Mesh 100-40 threads/cm (255-40 threads/inch)

NoriCard 776 Silver Medium Coarse, Mesh 77-55 th/cm (195-55 th/in)

NoriCard 781 Silver Coarse, Mesh 61-64 th/cm (156-64 th/in)

NoriCard 786 Silver Coarse, Mesh 43-80 th/cm (110-80 th/in)

Colors

NoriCard 093 Colorless Turbid
NoriCard 172 Yellow Transparent Satin Gloss
NoriCard 370 Red Transparent Satin Gloss
NoriCard 467 Pink Transparent Satin Gloss
NoriCard 567 Blue Transparent Satin Gloss
NoriCard 667 Green Transparent Satin Gloss
NoriCard 948 Black Satin Gloss

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

Thinning

Thinner NoriCard 090
Retarder NoriCard 097
Quantity: 10 – 20 %

Drying

NoriCard is physically drying by evaporation of the solvents. After jet 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.

Cleaning

Screens and utensils should be cleaned with UNI-REIN A III or UNI-CLEANER FP61.

Shelf Life

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

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).

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.