



Norilit[®] U

Screen Printing Ink and Pad Printing Ink

Area of Application and General Characteristics

Norilit[®] U is suitable for printing on metals, pre-treated polyester films, pre-treated polyolefins, polycarbonate, powder coated and lacquered metals.

The ink films show excellent resistance to yellowing, household cleaners, oils, lubricants, fuels and alcoholic solutions. Norilit[®] U resists 180 °C (355 °F) for a limited time (a few minutes).

Finish

Glossy

Color Shades

Basic Colors for the Proell Matching System	093 Colorless HF	472 Violet
	102 Citron HF	566 Blue Transparent HF
	312 Red HF	669 Green Transparent
	368 Red Transparent HF	945 White HF
	429 Red Violet HF	951 Blending Black HF
	467 Pink Transparent HF	
Standard Colors	944 White Opaque HF	948 Black HF

HF = halogen free

Thinning

Screen printing: Thinner M 202
Thinner S 404 or Retarder Paste VZ4-P or a corresponding mixture
Addition: approx. 20 %

Pad printing: Thinner F 001 (very fast)
Thinner F 002 (fast)
Thinner M 202 (medium)
Thinner M 203 (slow)
Thinner S 402 (very slow)
Addition: approx. 30 %

The Norilit[®] U basic colors have been tested according to the toy standard (DIN EN 71, part 3). The results measured (TÜV Rheinland LGA Products GmbH) were significantly lower than the given limits (migration of certain elements, category 3).

Fabric

All usual screen printing fabrics and mesh counts are suitable.

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.

Further Directions for Processing

Substrates printed with Norilit[®] U can be thermoformed.

Drying

Norilit® U dries rather slowly. For printing on substrates such as metals or lacquered materials hot air drying is recommended, e.g. 120 to 150 °C (248 to 302 °F), 15 to 30 min.

Overprinting

Overprint Varnish Norilit® U 093 Colorless

Weather Resistance

If printed materials are intended for outdoor use, rather thick films must be printed. We recommend using mesh of 77 threads/cm (195 threads/inch).

The relatively thin ink films printed by screen printing do not prevent from corrosion. It is necessary to degrease, clean and prime metals before printing.

Cleaning Screens and Utensils

Thinner M 202, UNI-REIN A III, UNI-CLEANER FP61

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 ambient 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.

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.