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**

<table>
<thead>
<tr>
<th>Basic Colors for the Proell Matching System</th>
<th>093 Colorless HF</th>
<th>102 Citron HF</th>
<th>312 Red HF</th>
<th>368 Red Transparent HF</th>
<th>429 Red Violet HF</th>
<th>467 Pink Transparent HF</th>
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<tbody>
<tr>
<td>Standard Colors</td>
<td>944 White Opaque HF</td>
<td>948 Black HF</td>
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*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 %

**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.
Norilit® U

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 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.

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.