



P.O. Box 4 29  
D-91773 Weissenburg i. Bay.  
Germany  
Phone: +49 9141 906-0  
Fax: +49 9141 906-49  
E-mail: [info@proell.de](mailto:info@proell.de)  
Internet: [www.proell.de](http://www.proell.de)

# Norilit<sup>®</sup> U-SG

## Screen and Pad Printing Ink

### Area of Application and General Characteristics

Norilit<sup>®</sup> U-SG is suitable for printing on metal, pre-treated polyethylene and polypropylene, polycarbonate and coated metals.

Great advantage of the ink system Norilit<sup>®</sup> U-SG is the good adhesion on untreated polyester films. For that reason Norilit<sup>®</sup> U-SG is recommended for membrane switches, front plates and decorative films in the production of gadgets and instruments.

The ink films show excellent resistance to yellowing, household cleaners, oils, lubricants, fuels and alcoholic solutions. Norilit<sup>®</sup> U-SG resists 220 °C (428 °F) for a limited time.

Norilit<sup>®</sup> U-SG does constitutionally not contain any pigments based on toxic heavy metals (DIN EN 71, part 3).

### 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 sliding agents or antistatic additives which may impair the adhesion of the inks.

Important (Continued)	In general please refer to our technical leaflet "General Information on Screen Printing Inks" which may be downloaded from our website <a href="http://www.proell.de">www.proell.de</a> , click Download ⇒ Screen Printing Inks ⇒ General information on screen printing inks.
Finish	Satin glossy.
Range of Colors	All colors of the ink system Norilit® U-SG are compatible with each other. The available basic colors are shown in our current price list.
Thinning Percentage	Screen Printing: approx. 20 % Thinner Norilit® U 090 or Retarder K 097 or Retarder Paste VZ4-P or corresponding mixture.  Pad Printing: approx. 30 % Thinner Tampo-Jet SK 090, Thinner Norilit® U 090 or Retarder VZ (from fast to slow).  <u>Special Colors:</u> Please refer to label on the can for thinner quantity.
Stencil	Solvent resistant emulsions or capillary films must be used. Excellent results during long production runs are achieved by using Pröll emulsions Norikop 2 FP, Norikop 7 S, Norikop 7 SD or Norikop 8 HR.
Drying	Physically drying ink system by evaporation of solvents. For substrates like metals or lacquered materials stoving is recommended (e.g. 120 – 150 °C (250 – 300 °F), 15- 30 min.) Flame or hot air drying improves the adhesion on polyoximethylene (e.g. lighters made of Delrin®).  We recommend to test whether high drying temperatures influence gloss or other properties.
Further Directions for Processing	Norilit® U-SG ink films can be thermoformed.
Overprinting	Overprinting Lacquer Norilit® U-SG 093.

<b>Weather Resistance</b>	<p>If printed materials are intended for outdoor use, rather thick films must be printed. We recommend using fabrics of 77 threads/cm (195 threads/inch).</p> <p>The relatively thin ink films printed by screen printing do not prevent from corrosion. It is required to degrease, clean and prime metals correspondingly.</p>
<b>Cleaning</b>	<p>For cleaning screens and utensils Thinner Norilit® U 090, UNI-REIN A III or UNI-CLEANER FP61 are recommended.</p>
<b>Shelf Life</b>	<p>Allow the ink to adjust gradually to room temperature before use.</p> <p>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).</p>

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.