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# KS-U

## Pad Printing Ink

### **Area of Application and General Charac- teristics**

Fast drying pad printing ink for printing on rigid PVC, polystyrene, styrene copolymers (like ABS and SAN), acrylics and polycarbonate.

### **Further Substrates**

Coated materials, polyamide, pretreated polypropylene, thermosets and metal.

To achieve adhesion in these cases, stoving and/or the use of hardener is recommended.

Pretests are essential.

The ink system KS-U 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.

Metals must be absolutely free of grease in order to achieve good adhesion of the ink. KS-U is not suitable for printing on plasticized PVC. Contact of the printed ink film with plasticized materials has to be avoided, too.

In general please refer to our technical leaflet "General Information on Screen Printing Inks" which may be downloaded from our website [www.proell.de](http://www.proell.de), click Download ⇒ Screen Printing Inks ⇒ General information on screen printing inks.

<b>Finish</b>	High gloss finish
<b>Matting</b>	Matting Agent 2009 (please see the separate Preliminary Technical Information) or Antiblocking Agent L 30220. Addition up to 10 %.
<b>Thinning</b>	<p>Thinner KS-U 090. This thinner is constitutionally free from cyclohexanone.</p> <p>Recommended percentage: 20 – 30 %.</p> <p>In addition the thinners or retarders listed in the pad printing thinner series can also be used (Thinner 6601, Thinner Tampo-Jet SK 90, Thinner Norilit® U 90, Retarder VZ and Retarder VZ 2).</p> <p><u>Special Colors:</u> Please refer to label on the can for thinner quantity.</p>
<b>Other Hints for Processing</b>	<p>The ink can be stoved at 100 – 120 °C (210 – 250 °F) for about 20 min.</p> <p>The good chemical resistance or the resistance to redissolving can be increased by adding Hardener 8124.</p> <p>Recommended addition: 10 % by weight</p> <p>This mixture can be stoved at temperatures up to 120 °C (250 °F).</p> <p>The Hardeners PUR®-ZK No. 1 and PUR®-ZK No. 2 are compatible with KS-U, but pretests are strongly recommended.</p>
<b>Resistance</b>	<p>Before testing the resistance, the ink must be completely dried. A mixture with hardener needs seven days at ambient temperature or 48 hours at 50 – 60 °C (120 – 140 °F) for a thorough curing.</p> <p>The results of some standard resistance tests are shown in the Technical Information “Resistance Test Results KS-U”.</p>
<b>Cleaning</b>	Cliché and utensils should be cleaned with Pröll Uni-Reiniger (Universal cleaner), UNI-REIN A III or UNI-CLEANER FP61.
<b>Shelf Life</b>	<p>Allow the ink and the hardener to adjust to room temperature in the closed container before use.</p> <p>The shelf life stated on the label assures the ink’s and hardener’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> <p>Opened containers of hardener must be tightly sealed immediately after use as the hardener reacts with moisture in the air.</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.