Sorte P
Screen Printing Ink and Pad Printing Ink

**Area of Application and General Characteristics**

Sorte P is a glossy screen and pad printing ink and suitable for printing on polystyrene, ABS, SAN, rigid PVC, acrylics and polycarbonate. This ink system is particularly suitable for materials which are sensitive toward solvents and stress cracking.

Sorte P is inapplicable for printing on plasticized PVC. Contact of the printed ink film with plasticized materials has to be avoided, too.

**Weather Resistance**

Sorte P is weather resistant. Please note that the quality of the substrate and the dry film thickness influence the fastness of the ink. For a sufficient thickness of the ink layer a screen fabric 77-55 (195 threads per inch) or coarser is recommended. On rigid substrates overprinting is advised additionally.

**Finish**

High gloss

**Color Shades**

<table>
<thead>
<tr>
<th>Basic Colors for the Pröll Matching System</th>
<th>093 Colorless</th>
<th>102 Citron</th>
<th>104 Yellow*¹</th>
<th>207 Orange*¹</th>
<th>312 Red*²</th>
<th>368 Red Transparent</th>
<th>429 Red Violet</th>
<th>467 Pink Transparent</th>
<th>472 Violet</th>
<th>566 Blue Transparent</th>
<th>669 Green Transparent</th>
<th>941 Blending White</th>
<th>951 Blending Black</th>
</tr>
</thead>
<tbody>
<tr>
<td>Standard Colors</td>
<td>320 Bright Red*²</td>
<td>944 White Opaque</td>
<td>945 White</td>
<td>948 Black</td>
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For illuminated advertising applications (second surface printing on PMMA sheets), solely Standard Color 320 Bright Red shall be used, if a red shade is to be printed.

**Matting**

Matting Agent 2009; addition depends on desired matting level (see corresponding Technical Information).

Matted ink films are not as weather resistant as glossy color shades.

**Thinning**

**Screen printing:**

Thinner F 010, Thinner S 409 (very mild)
Thinner M 203, Thinner S 406 or Retarder Paste VZ4-P
Addition: approx. 20 %

**Pad printing:**

Thinner F 001 (very fast)
Thinner F 002 (fast)
Thinner M 202 (medium)
Thinner M 203 (slow)
Addition: approx. 30 – 35 %

*¹ = Not suitable for vacuum forming, as sensitive to temperature.
*² = Mono-pigmented standard color shade 320 should be used for outdoor applications.
Sorte P

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.

Drying
Fast drying in the air and in tunnel dryers by evaporation of the solvents.
Drying depends on the printed substrate, the thickness of the printed ink film as well as on the circulation and the temperature of the air in the tunnel dryer. In general, dryers with high air performance and low temperatures produce better drying results than dryers working with little air and high temperatures.

Overprinting
Overprint Varnish Sorte P 093 Colorless

Cleaning of Screens and Utensils
UNICLEANER FP61 and UNI-REIN A III

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.
Results, to a large extent, depend on the substrate as well as the printing and application conditions. We recommend checking your substrate 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](http://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.