



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

Basic Colors for the Pröll Matching System	093 Colorless	368 Red Transparent	669 Green Transparent
	102 Citron	429 Red Violet	941 Blending White
	104 Yellow* ¹	467 Pink Transparent	951 Blending Black
	207 Orange* ¹	472 Violet	
	312 Red* ²	566 Blue Transparent	
Standard Colors	320 Bright Red* ²	945 White	948 Black
	944 White Opaque		

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.

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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, 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.