



JET[®] 200

Screen Printing Ink

Area of Application and General Characteristics

Fast drying screen printing ink for printing on rigid and soft PVC, VC copolymers, artificial leather, acrylics and polycarbonate.

When printing on thermoplastics, JET[®] 200 withstands thermoforming.

Weather Resistance

The weather resistance of screen printing inks is influenced by the substrate. In general, prints on cheap films are less suitable for outdoor use than prints on quality films.

Prints for outdoor use have to be printed with a mesh of 77 threads/cm (195 threads/inch) or coarser. High concentration of white may cause chalking in case of unfavourable outdoor conditions.

In addition, White Opaque 944 shall not be used for outdoor applications.

Finish

Glossy, the gloss is influenced by the structure of the substrate.

Color Shades

Basic Colors for the Proell Matching System	093 Colorless	368 Red Transparent	669 Green Transparent
	102 Citron	429 Red Violet	945 White
	104 Yellow* ¹	467 Pink Transparent	948 Black
	207 Orange* ¹	472 Violet	
	312 Red	566 Blue Transparent	
Special Colors	371 Red Transparent	688 Phosphorescent Ink Green (please see separate Technical Information sheet)	
	944/015 White Highly Opaque	944 White Opaque	

Mattierung

Matt Paste 098: Addition 5 – 10 %

or

Matting Agent 2009, addition depend on desired matting level (see corresponding Technical Information).

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

Thinning

Best printing results are achieved by using Thinner Paste 94. Addition depends on printing jobs in case of colored shades 30 %, in case of black up to 40 %.

Further Thinners:

Mainly Thinner M 204 or M 205

Thinner M 203, Thinner S 404 or Retarder Paste VZ4-P

According to the printing job the printing viscosity is adjusted with approx. 20 % thinner or a mixture of thinner whereas the portion of Thinner S 402 should not exceed 5 % due to its extremely slow drying.

*¹ = Not to be used for printing on soft PVC or plastics containing high amounts of plasticizers.
Not suitable for vacuum forming.

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 time depends on the substrate, the mesh fineness, the air exchange rate in the continuous dryer and the air temperature, so no universally valid values can be stated.

In general dryers with high air exchange rate and low temperature produce better drying results than those working with low air exchange rate and high temperatures.

Overprinting

Overprint Varnish JET® 200 093 Colorless

Overspraying (for Rigid Substrates)

Spray Lacquer 096 with Thinner F 002. Adjust spraying viscosity with DIN-4 cup to 16 – 18 sec. flow time.

Cleaning Screens and Utensils

UNI-CLEANER 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.

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.

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