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# Thermo-Jet®

## Screen and pad printing ink

### Area of Application and General Characteristics

**Thermo-Jet® is suitable for printing on rigid and soft PVC (for example PVC-coated awnings for trucks), artificial leather, acrylics, polycarbonate and pretreated polyester for the production of membrane switches.**

**Printed on thermoplastic substrates, Thermo-Jet® is hf-weldable and thermoformable, with the exception of 944 White Opaque. High frequency sealing can be improved by adding approx. 20 % Additive L25564.**

### 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 or contain sliding agents, antistatics or other additives which may 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 Download ⇒ Screen Printing Inks ⇒ General information on screen printing inks.

<b>Weather Resistance</b>	<p>When printing on suitable substrates Thermo-Jet® shows excellent weather resistance. To ensure outdoor durability, a mesh of at least 81 threads/cm (206 threads/inch) should be used. A high concentration of white ink can cause chalking when used for outdoor purposes.</p> <p><u>Thermo-Jet® 940</u> Specially pigmented white with improved resistance to chalking for the white shade itself as well as for mixing with other colors.</p>
<b>Finish</b>	<p>Glossy.</p> <p><u>Thermo-Jet® 950</u> Thermo-Jet® 950 (Brilliant Black) shows a higher gloss and opacity than 948. The color shade is more intense.</p>
<b>Matting</b>	<p>Matt Paste 098: addition of 10 – 20 % <u>or</u> Matting Agent 2009: addition of 1 – 3 % depending on the desired matting level. Matted ink films are not as weather resistant as original color shades.</p>
<b>Range of Colors</b>	<p>All colors of the ink system Thermo-Jet® are compatible with each other. The available basic colors are shown in our current price list.</p>
<b>Thinning</b>	<p><u>Screen printing:</u> Thinner 2090 Retarder VZ Retarder K 97 Retarder Paste VZ4-P or a corresponding mixture Quantity: 20 – 30 % by weight</p> <p><u>Pad printing:</u> Thinner 6601 Thinner Tampo-Jet SK 90 Thinner Norilit® U 90 Retarder VZ and Retarder VZ 2 (from fast to slow) Quantity: 30 – 40 % by weight</p> <p><u>Special Colors:</u> Please refer to label on the can for thinner quantity.</p>
<b>Drying</b>	<p>Thermo-Jet® dries by solvent evaporation. Tunnel dryers may be used.</p>

<b>Other Directions for Processing</b>	For printing fine lines in the screen printing process, we recommend to add approx. 10 % Kristallpaste 077.  When decorating PVC-coated awnings for trucks, the color shade 945 White has to be mixed with AZ-Additive 9524 (mix ratio 10 : 1) prior to use.
<b>Overprinting</b>	Overprinting Lacquer MZ 093 (for inelastic substrates)
<b>Overspraying</b> (for inelastic Substrates)	Spray Lacquer 096 with Spray Thinner 95. Adjust spraying viscosity with DIN-4 cup to 16 – 18 sec. flow time.
<b>Cleaning</b>	Screens and equipment should be cleaned with UNI-REIN A III or UNI-CLEANER FP61.
<b>Shelf Life</b>	Allow the ink as well as all the auxiliaries to be added to adjust to room temperature in the closed container before use.  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).

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.