



# Thermo-Jet® CFI

One-component, solvent-based Screen and Pad Printing Ink – free of cyclohexanone

## Area of Application and General Characteristics

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

**Printed on thermoplastic substrates, Thermo-Jet® CFI Basic Colors are thermo-formable. When applying other color shades, pre-tests are necessary.**

## Weather Resistance

When printed on suitable substrates, Thermo-Jet® CFI shows excellent weather resistance. To ensure outdoor durability, a mesh not finer than 77 threads/cm (195 threads/inch) should be used.

## Finish

Glossy

## Color Shades

<b>Basic Colors for the Proell Matching System</b>	093	Colorless	467	Pink Transparent
	102	Citron	472	Violet
	104	Yellow* <sup>1</sup>	566	Blue Transparent
	207	Orange* <sup>1</sup>	669	Green Transparent
	312	Red* <sup>2</sup>	945	White* <sup>3</sup>
	368	Red Transparent	948	Black
429	Red Violet			
<b>Standard Colors</b>	101	Yellow Light	628	Green Light
	171	Yellow Transparent	701	Silver Glossy
	314	Red Dark	770	Silver (abrasion resistant)
	315	Red Medium	836	Brown
	320	Bright Red * <sup>2</sup>	942	White (for tarpaulins), see paragraph "Decoration of Tarpaulins"
	371	Red Transparent	944	White Opaque (* <sup>3</sup> , not for outdoor applications)
	386	Fluo Red	949	Process Black
	520	Ultra Blue	952	Black Highly Opaque * <sup>4</sup>
	522	Marine Blue		

Further Standard, Special and Metallic Colors are available on request.

## Matting

Thermo-Jet® CFI 098 Matt Paste: addition of 10 – 20 %

or

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.

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

\*<sup>2</sup> = Mono-pigmented standard color shade 320 should be used for outdoor applications.

\*<sup>3</sup> = Not suitable for printing tarpaulins as the highly pigmented ink is not elastic enough.

\*<sup>4</sup> = Not suitable for pad printing. Contains magnetizable pigments.

### **Thinning**

Screen Printing: Thinner M 218  
or  
Thinner M 219  
Addition: approx. 20 %

Pad Printing Thinner F 001 (very fast)  
Thinner F 003 (fast to medium)  
Thinner M 218 (medium to slow)  
Thinner M 207 (medium to slow)

These Thinners are free of cyclohexanone.

In addition, the other Pröll Pad Printing Thinners are suitable as well. Please note, that the thinners marked with (\*) contain cyclohexanone.

Thinner F 002 (\*)  
Thinner M 202 (\*)  
Thinner M 203  
Thinner S 402

Addition: approx. 35 %

### **Decoration of Tarpaulins**

In case of White, Standard Color shade 942 is to be used.

To all color shades applied to the decoration of tarpaulins, 10 % Adhesion Promoter 103 must be added. These mixtures are thinned with approx. 10 – 20 % Thinner M 218.

**The potlife is in the range of 24 hours.**

### **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**

Thermo-Jet® CFI is a physically drying ink system with medium drying speed which dries by evaporation of the solvents in a jet dryer. Rack drying is possible as well.

### **Overprinting**

Overprint Varnish Thermo-Jet® CFI 093 Colorless

### **Cleaning Screens and Utensils**

Screens and utensils can be cleaned with UNI-CLEANER FP61 or 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 ambient 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](http://www.proell.de), click Downloads ⇒ Solvent-Based Screen Printing Inks.

This is a test product which is still in development. For this reason, no assurances are currently given as to type conformity, processability and long-term performance characteristics. Therefore, the customer uses the product entirely at his own risk with no guarantee.

Before starting a production run, it is necessary to test samples of each newly designed part systematically with regard to the specifications for the intended use (e. g. climatic chamber, resistance, etc.).

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.