



**Innovative Inks &  
Functional Lacquers**



## COLORS ● ● ● ● FOR SUCCESS

**Water-based Screen Printing  
Inks for Graphic and  
Industrial Applications**



**Water-based ink systems convince through their high processing speed and good printing properties. Our water-based screen printing inks are free of aromatic solvents, NMP, cyclohexanone, phthalates and PVC.**

### **Aqua-Jet® FGL**

Aqua-Jet® FGL is a water-based satin gloss screen printing ink for printing on plastics such as PC and various types of PVC. Paper and cardboard as well as wooden materials and textiles are also printable substrates. The water-based ink system is easy to process (screen printing, rolling, spraying, painting), suitable for many substrates, and therefore a good substitute for conventional solvent-based inks. Specialty ink systems such as Aqua-Jet® FGL show good mechanical and chemical resistance when used on many substrates, are formable and suitable for outdoor applications. Adding crosslinker further improves the chemical resistance/durability of the ink layer.

### **Aqua-Jet® KF**

Aqua-Jet® KF is a glossy water-based screen printing ink for rigid substrates

such as polystyrene, PMMA, polycarbonate, rigid PVC and pre-treated polyester.

### **Aqua-Jet® WT**

Aqua-Jet® WT is a water-based screen printing ink for printing on wood and plastics (only after pretests!) for indoor application, especially for wooden toys. The environmentally compatible and user-friendly ink system shows good printing properties and a high gloss finish. Aqua-Jet® WT is free of residues of organotin compounds.

### **AquaCell® GL**

AquaCell® GL is a fast drying, satin gloss, water-based screen printing ink for printing on paper, stone paper, cardboard and wooden materials. Posters printed with AquaCell® GL are suitable for indoor and short-term outdoor exposure. The ink system is easy to process, shows good screen opening, even when printing fine details. The prints can be dried at low dryer temperatures and show good blocking stability.

### **AquaTex C**

AquaTex C is a water-based ink system to print on cotton, cotton blends and synthetics (such as polyester, polyamide,

viscose and acetate textiles). AquaTex C produces soft, smooth prints which are barely noticeable in the feel of the textiles. AquaTex C can be fixed with heat or by cold fixation through the addition of a fixative at room temperature. This textile screen printing ink is free of solvents.

### **Selection of Color Shades**

The Proell Color Matching System consists of basic colors and a lacquer which can easily be used to develop nearly any color shade.

A variety of standard color shades, transparent and highly opaque colors, half-tone inks, fluorescent inks as well as metallic and effect pigment colors are available in the screen printing range.

Proell printing inks and lacquers are manufactured in compliance with RoHS and REACH.

Proell inks do not contain any pigments based on toxic heavy metals.

With the exception of AquaTex C 5–8, all pigments used in Proell basic and standard colors have a blue wool rating of 6–8 (DIN 16525).

The quality and environmental management system of Proell GmbH is certified according to ISO 9001 and ISO 14001.

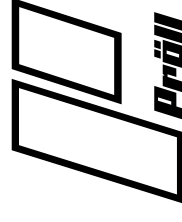
Customized ink and coating solutions are our business.

Contact us.

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# Water-based screen printing inks for industrial, graphic and textile screen printing.

This chart assists in the selection of suited water-based ink systems and auxiliaries.  
For further information please see the corresponding Technical Information.



Substrates	AquaCell® GL*	Aqua-Jet® FGL*/**	Aqua-Jet® KF*/**	Aqua-Jet® WT*	AquaTex C*/**
Cotton, Linen		▲			■
Cotton mix		▲			■
Synthetics					▲
Acrylics			▲	▲	
PVC rigid		■	■		
PVC plasticised		■	▲ (1)		
Polystyrene, ABS, SAN			▲ (2)	▲	
Polycarbonate		▲	▲	▲	
Polyester pre-treated		▲	▲		
Polyolefins pre-treated		▲	▲		
Paper, Cardboard	■	■	■	■	
Wood	■	■	■	■	
Drying					
physically	✓	✓	✓	✓	✓
physically-reactive		✓	✓		✓
Finish	satin gloss	satin gloss	satin gloss	glossy	
Outdoor resistance	short term	✓	✓	short term	
Auxiliaries					
Defoamer	1 % L 54131	1 % L 54131	1 % L 36273	1 % L 36273	
Thinner	10 % Water	10 % Water	5 – 10 % Water	print ready	3 – 5 % Water 3 – 5 % AquaTex Thinner
Retarder					
VZ 100	nicht geeignet	max. 5 %	max. 5 %		max. 5 %
L 47716	max. 20 %	max. 20 %	max. 20 %		max. 20 %
Crosslinker		2 % Crosslinker WB 001	2 % Crosslinker WB 001		2 % Crosslinker WB 001

✓ = applicable

■ = basically suited

▲ = can be suited (pretests required)

\* = One-Component Ink

\*\* = Two-Component Ink

(1) = Not to be used for printing on soft PVC or plastics containing high amounts of plasticizers.

(2) = Addition of crosslinker may impair the adhesion.

**Important:** Printing results, to a large extent, depend on the substrate as well as the conditions of use. We recommend checking your substrate under your printing conditions 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 sliding agents, antistatic or other additives which can impair the adhesion of inks.