



**Innovative Inks &
Functional Lacquers**

Water-based Screen Printing Inks for Graphic and Industrial Applications



Water-based ink systems convince through their high processing speed and good printing properties.

Aqua-Jet® WBI

Aqua-Jet® WBI 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® WBI show good mechanical and chemical resistance on many substrates and are formable. 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, rigid PVC and pre-treated polyester.

AquaCell® SG

AquaCell® SG 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® SG 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 crosslinker at room temperature.

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, ISO 14001 and ISO 45001.

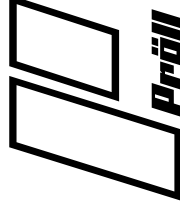
Customized ink and coating solutions are our business.

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® SG*	Aqua-Jet® WB1 */**	Aqua-Jet® KF */**	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	glossy	
Outdoor resistance				
	short term	short term	short term	
Auxiliaries				
Defoamer	1 % 9331	1 % L 54131	1 % L 71119	
Thinner	10 % Water	10 % Water	5 – 10 % Water	3 – 5 % Water
Retarder				3 – 5 % AquaTex Thinner
VZ 100	—	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.