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AquaCell® GL

Water-based Screen Printing Ink

Area of Application	Fast drying, satin gloss, water-based screen printing ink system to print on paper, cardboard and wood. To be used for indoor and short term outdoor exposition.
Characteristics	<ul style="list-style-type: none">- Good screen stability- Good self solvency- Energy saving due to low dryer temperature- High printing speed- VOCs reduced to approx. 2 – 3 %- All color shades of AquaCell® GL do not contain any pigments based on toxic heavy metals (DIN EN 71, part 3)
Range of Colors	Please see the Technical Information "The Pröll AquaCell® Matching System".
Thinning	<p>Addition of 1 % Defoamer AquaCell® L 54131 <u>and</u> of approx. 10 % water prior to printing</p> <p><u>or</u></p> <p>1 % Defoamer AquaCell® L 54131 <u>and</u> of 15 – 20 % Retarder L 47716</p> <p>The defoamer is effective for approx. 3 days, then new defoamer should be added.</p>

Important	<p>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 or antistatic additives which may impair the adhesion of the inks.</p> <p>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 Download ⇒ Screen Printing Inks ⇒ General information on screen printing inks.</p>
Stencil	<p>Water-resistant emulsions must be used. Excellent results in long production runs are achieved with Norikop 7 S.</p>
Fabrics	<p>PES-fabrics of 100 – 180 threads/cm (250 – 450 threads/inch) are suitable. When printing posters with process inks (paper weight of 130 – 150 g/m²) excellent results are achieved using polyester fabrics of 150 threads/cm (375 threads/inch).</p>
Directions for Processing and Drying	<p>The relative humidity in the air of the printing room should be higher than 50 % to avoid drying and thickening of the ink.</p> <p>During long printing runs, an increase in viscosity caused by evaporation of water can be adjusted by the addition of water.</p> <p>During printing stops do not flood the stencil with ink. Before restarting to print, either wash with Aqua-Jet® Liquid Cleaner L 34642 or flood the stencil with fresh ink, let it take effect for two minutes and restart to print after some misprints.</p> <p>In general, drying equipment with a good air exchange and relatively low temperatures gives better results than dryers working with small amounts of air at high temperatures.</p> <p>Printing on both sides of the substrate and stacking is not recommended.</p>
Cleaning	<p>Screens and utensils can be cleaned with Aqua-Jet® Liquid Cleaner L 34642 or Cleaning Concentrate 6953. The screens may be cleaned in automatic screen washing and cleaning devices by using suitable cleaning agents.</p> <p>For manual cleaning, the following advice is important:</p> <ul style="list-style-type: none"> – The non-squeegee-area should be kept as small as possible, e. g. confine the ink to the squeegee-area by using dams. – The unused ink on both sides of the squeegee should be returned into the printing area from time to time. – The unused ink on the screen should be protected from drying and hardening by spraying with water.

When manually cleaning Aqua-Jet® Liquid Cleaner L 34642 or Cleaning Concentrate 6953 can be used. The above mentioned cleaners should be sprayed onto the stencil and spread with a brush. After soaking for 2 to 3 minutes, rinse with a high-pressure water sprayer.

Auxiliaries

- **Defoamer AquaCell® L 54131**
Add 1 % to ink, stir thoroughly.
- **Retarder L 47716**
Works like a retarder paste, i. e. that is the viscosity of the ink is not dramatically decreased . Add approximately 15 – 20 %.
- **Aqua-Jet® Liquid Cleaner L 34642**
Proven cleaner for liquid water based inks.
- **Cleaning Concentrate 6953**
Solvent free universal cleaner, can be diluted with water (see Technical Information).
- **Cleaner 6614**
Solvent based cleaner for dried inks remaining in the mesh. The mesh must be dry before application.

Shelf Life

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).

AquaCell® GL should not be stored below 0 °C (32 °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.