

Preliminary Technical Information  
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Test Product



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# Noritemp GC

## 2-Component Stoving Ink

### **Area of Application and General Characteristics**

**Stoving ink system for decorating glass, porcelain and ceramics by means of screen printing, paint-brush or airbrush. This ink is also suitable for printing on metals and coated or powder-coated metal surfaces whereas pre-tests are absolutely necessary.**

**This organic screen printing ink system provides very high resistance to aqueous household cleaners, hand and machine dishwashing detergents as well as to chemicals and solvents like aliphatic and aromatic hydrocarbons, alcohols, greases, oils and hydraulic fluids.**

Noritemp GC does not contain any pigments based on toxic heavy metals (DIN EN 71, part 3).

### **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.

Important  
(Continued)

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.

**Finish**

Glossy

**Mixing Ratio**

Noritemp GC has to be mixed with **Glass Hardener GC** prior to printing.

For all color shades the mixing ratio is 100 : 2 (100 parts by weight ink and 2 parts by weight **Glass Hardener GC**). Both components have to be mixed homogeneously. Then the mixture is thinned, as described in the respective paragraph.

**Pot Life**

The mixture of ink and hardener must be processed within 8 hours. This time span refers to an ambient temperature of 20 °C (68 °F). Higher temperatures accelerate the curing process. Consequently, the quantity of the mixture should be limited in accordance with the amount which is necessary for the printing job. Even if the ink still seems to be processable an exceeding of the time limit will impair the adhesion and resistance of the printed ink film.

**Range of Colors**

**Basic Colors for Pröll's Matching System**

<u>Noritemp GC Color Number</u>	<u>Color Shade</u>
102	Citron
320	Bright Red
368	Red Transparent
429	Red Violet
467	Pink Transparent
472	Violet
566	Blue Transparent
669	Green Transparent
945	White
948	Black

Range of Colors  
(Continued)

**Standard Colors**

<u>Noritemp GC Color Number</u>	<u>Color Shade</u>
944	White Opaque

**Process Inks**

<u>Noritemp GC Color Number</u>	<u>Color Shade</u>
156	Process Yellow
357	Process Magenta
558	Process Cyan
099	Process Paste

**Thinning**

15 – 25 % **Thinner Noritemp GC 090**

Special Colors: Please refer to the label on the can for thinner quantity.

**Retarder**

**Retarder VZ 2**

**Spray Thinner**

**Spray Thinner Noritemp GC 095**

**Fabric**

Noritemp GC can be processed using all types of conventional screen fabrics.

**Stencil**

Solvent resistant emulsions must be used. Excellent results during long production runs is achieved by using Pröll emulsion Norikop 2 FP.

**Drying/Stoving**

Sufficient adhesion can be achieved by stoving only.

We recommend the following temperatures for objects and drying periods:

160 °C (320 °F): 20 to 30 min.

180 °C (360 °F): 10 to 20 min.

Glass should generally be stoved at 180 °C (360 °F) for 20 minutes.

<b>Remark</b>	<p>The clean and degreased surface of the substrate is of decisive importance regarding adhesion and resistance of the baked ink layer.</p> <p>When cleaning, please consider that standard (glass)cleaners often leave residues of wetting agents on the surface which may impair the adhesion of the ink especially when exposed to mechanical stress or to steam (e. g. dew).</p>
<b>Cleaning</b>	<p>Screens and utensils can be cleaned with UNI-REIN A III or UNI-CLEANER FP61.</p>
<b>Shelf Life</b>	<p>Allow the ink as well as all the auxiliaries to be added to adjust to room temperature in the closed container before use.</p> <p>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).</p>

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

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.