



***Innovative Inks &  
Functional Lacquers***

## **Screen Printing Inks for a Variety of Applications and Substrates**





**Proell offers a broad range of one and two-component ink systems for printing and coating products in industrial and graphic screen printing.**

### Color-Jet®

Glossy multi-purpose ink system for paper and cardboard, rigid and soft PVC, acrylics, polycarbonate and pre-treated polyester.

Thinner M 204

### JET® 200

Satin gloss screen printing ink for use on rigid and soft PVC, acrylics and polycarbonate. JET® 200 is used primarily for production of speedometer panels.

Thinner M 204

### Norifin® PP N

Satin gloss screen ink for printing on untreated polypropylene.

Thinner F 008

### NoriGlass OR

NoriGlass OR is an outdoor resistant 2-component glass decorating ink.

The screen printing ink is suitable for the second surface decoration of glass, partic-

ularly for symbols of touch switches and for backlit displays for outdoor applications.

Thinner S 402

Glass Hardener 042

### NoriGlass TPI

Organic glass screen printing ink for the manufacture of backlit touch panel displays.

Thinner S 402

Adhesion Promoter 102

Hardener 004

### Norilit® CS

Satin gloss ink system for printing on lacquered and powder coated materials, and on certain UV coated substrates.

Thinner M 215

Hardener 002

### Norilit® U

Glossy screen ink for printing on metals, pre-treated polyester films and polyolefins, polycarbonate, powder-coated and lacquered metals. Thermo-formable and chemically resistant, Norilit® U is used for the production of membrane switches.

Thinner M 202

Hardener 002

### Norilit® U-SG

Satin gloss screen printing ink for use on metals, untreated polyester films, pre-

treated polyethylene and polypropylene, polycarbonate and coated substrates.

Thinner M 202

Hardener 002

### NoriPlan®

Glossy, elastic one-component ink system with excellent weather resistance. Especially developed for decoration of tarpaulins for trucks and banners.

Thinner M 205

### Noriprint® PS

Very fast drying, satin gloss ink for printing on polystyrene, ABS and SAN, PVC and polycarbonate.

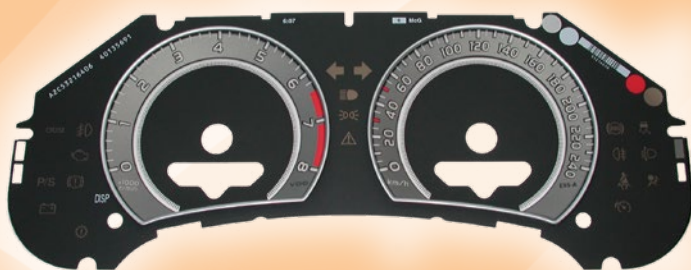
Thinner M 211

### NoriPUR®

Glossy one or two-component ink for PVC, pre-treated polyester and polyolefins, acrylics, polycarbonate, wood, metal and for use after pre-testing on polystyrene, ABS and SAN. Processed as two-component ink, NoriPUR® displays excellent resistance to chemical and mechanical influences and is suitable for outdoor use.

Processed as two-component ink, NoriPUR® shows excellent resistance to chemical and mechanical influences. NoriPUR® Basic Colors are certified (DIN EN 71, part 3) for decorating toys. Highly opaque color shades for printing on dark substrates are available from stock.





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**Adhesion Promoter 103** can be added (instead of hardener) to achieve better adhesion to certain hard coated or TPU materials.

Thinner M 202

Hardener 002

### NoriScreen® ALU

NoriScreen® ALU is a solvent-based two-component screen printing ink for printing on metals and pre-treated PET films. Due to the silicone-free formulation, NoriScreen® ALU can be used for the manufacture of high quality transfers and decals. NoriScreen® ALU is free of cyclohexanone and formulated without aromatic solvents.

Thinner M 212

Hardener 004

### Sorte P

Glossy screen printing ink for polystyrene, ABS and SAN, acrylics and polycarbonate. Sorte P was developed especially for materials sensitive to solvents and which are prone to stress cracks.

Thinner F 010

Hardener 002

### Thermo-Jet®

Glossy multi-purpose ink for rigid and soft PVC, acrylics, polycarbonate and pre-treated polyester. The fast drying Thermo-Jet® ink displays good printability and high resistance to chemicals and

abrasion. The ink system is used for the production of membrane switches and thermoformed backlit signs.

Thinner M 204

Hardener 001

### ZK-Two-Component Ink

Glossy ink system for printing on pre-treated polyolefins, metal, glass, wood, molded thermosets, pasteboard and cardboard. Used primarily to print molded elements made of treated polyolefins. ZK-Two-Component Ink is used to achieve high resistance to aggressive media and to mechanical stress. For this reason, it is also used to print on bottle crates, as well as on plastic containers for chemicals and cosmetics.

Thinner M 204

Hardener 032

### Auxiliaries for screen printing inks

If not otherwise stated, addition of **Hardener 001** or **002** improves abrasion and chemical resistance of the printed ink significantly. Addition of **Antiblocking Agent L 30220** makes the printed ink surface satin glossy, but improves the abrasion resistance noticeably.

**Matting Agent 2009** can be added to any ink system to reduce the gloss. Addition of flow promoting agent **Norilon 5** improves the surface of the printed ink.

When printing electrostatically charged substrates, addition of **Norilin® A** reduces the electrostatic charge.

**Primer No. 1** is an adhesion promoter especially developed for the pre-treatment of polypropylene.

### Selection of Color Shades

The Proell Color Matching System consists of 12 basic colors and one lacquer which can easily be used to develop nearly any color shade.

A variety of standard, transparent and high opaque colors, half-tone 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.

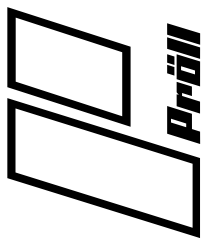
Proell inks do not contain any pigments based on toxic heavy metals.

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

Custom-made ink and coating solutions are our business.

Contact us.

❖ [www.proell.de](http://www.proell.de)



## Screen Printing Inks – Select the ink for your substrate

This application chart assists in the selection of suitable solvent-based inks. For further information please see the corresponding Technical Information.

Finish			Drying		Further processing				Substrates				Auxiliaries																
Ink Systems																													
Color-Jet®	✓			✓			✓					■	■	■	▲	■	■					■	■				▲		10 – 20 %
									✓			■	■	■	■		▲					■	■				▲		20 %
JET® 200			✓									■	■	▲								■	■				▲		10 %
Norifin® PP N		✓	✓								180		▲									■	▲				▲		0 – 25 %
NoriGlass OR**	✓						▲				180											■	▲				▲		10 – 20 %
NoriGlass TPI**	✓																												
Norilit® CS		✓	✓																			■	■			▲			10 %
Norilit® U	✓			✓				✓			180			■	■							■	■			▲			20 %
Norilit® U-SG		✓	✓					✓			180			■	■							■	■			▲			20 %
NoriPlan®	✓			✓			✓	✓					✓	■												▲			30 %
Noriprint® PS		✓	✓				✓	✓				▲	■	▲	■	■						■	■			▲			30 %
NoriPUR®*/**	✓		✓				✓	✓*			140¹	■	■	▲	▲	■	■					■	■		▲	▲	▲		20 – 30 %
NoriScreen® ALU**		✓		✓				✓			160						■								■	▲			15 %
Sorte P	✓			✓	✓		✓	✓				■	■		■	■						■	■			▲			20 %
Thermo-Jet®	✓			✓			✓	✓				■	■	▲	■											▲			20 %
ZK-Two-Comp. Ink**	✓										180											■	■			▲			15 %

✓ = applicable

■ = basically suited

▲ = can be suited (pretests required)

\* = One-Component-Ink

\*\* = Two-Component-Ink

¹ = depending on color shade

**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.