

# Product Data Sheet

## Screen Printing Ink

**SunChemical®**  
Coates Screen Inks

# LAB-N 111023

## Solvent Based Screen Ink Range, 1-Component

### APPLICATION

Screen printing inks for printing on balloons (Latex).

### PROPERTIES

- Screen inks LAB-N 111023 are solvent based physically drying 1-component screen printing inks resulting in a satin matt finish.
- The printed ink film of LAB-N 111023 inks shows a high elasticity.
- Note: LAB-N 111023 inks are formulated for printing of balloons. These are generally printed when blown up half.

### COLOUR SHADES - OVERVIEW

- LAB-N 111023 are only available in standard colour shades 60 (white) and 65 (black).
- Other standard colour shades are available upon request.
- Special colour shades are available upon request.

### CHOICE OF PIGMENTS AND LIGHT FASTNESS

Colour shades of ink range LAB-N 111023 contain pigments with a good light fastness. LAB-N 111023 screen inks are formulated for the short-term outdoor use of balloons.

### ADJUSTMENT FOR SCREEN PRINTING

- Screen printing inks LAB-N 111023 are not supplied in a ready-to-print adjustment.
- Depending on local conditions the ink has to be adjusted for printing by addition of 5 to 10 % by weight thinner or retarder (stir with mixer, agitator).
- Prior to printing, the inks should be stirred well to obtain a homogeneous dispersion of all ingredients.

### THINNERS / RETARDERS

For adjustment of screen inks LAB-N 111023, the following products are available:

Thinner:	■ MVS	Fast evaporation
Retarder:	■ MVH	Medium evaporation

■ = Preferred      ○ = Suitable

Depending on printing conditions, the products listed above can be mixed into the inks individually or as mixtures. Please note that depending on evaporation rate of the thinner/retarder used drying times may be longer.

Thinner/retarder should be mixed into the ink thoroughly using a mixer or agitator. In addition, inks should be stirred well prior to each processing to obtain a homogeneous dispersion of all ingredients.

### ADDITIONAL AUXILIARY AGENTS

Application	Product	Addition in % by weight	Additional Information
Retarder paste	LAB-N 111420/VP	Max. 10%	Gloss slightly reduced
Increase viscosity	Thickening powder	Max. 3%	Stir with mixer
Matting	Matting powder	Max. 5%	Stir with mixer
Flow agent	VM 2	0.3 - 0.5%	Do not overdose!

**OVERPRINTING**

Overprinting of LAB-N 111023 inks is not necessary.

**BRONZE COLOURS, MIXING OF BRONZE INKS**

Bronze colours may be available upon request.

**DRYING**

LAB-N 111023 screen printing inks dry physically, i.e. by evaporation of solvents.

Drying times below are only approximate as drying properties depend on various factors:

- Type and amount of thinners/retarders used.
- Thickness of printed ink layer; number of overprinted ink layers.
- Temperature, air supply, speed of air stream.

Drying time using efficient warm air nozzles is about 10 - 20 seconds.

**SCREEN FABRIC / STENCILS**

LAB-N 111023 inks are formulated for printing with fabrics ranging from 90 to 120 threads/cm. Suitability for printing with coarser or finer fabrics should be determined by appropriate pre-trials.

All copy emulsions and capillary films suitable for solvent based screen inks can be used as stencil material, such as our program of SunCoat or Murakami products.

**CLEANING**

Stencils and tools can be cleaned with our universal cleaning agents URS or URS 3.

**PACK SIZE**

Screen printing inks LAB-N 111023 are delivered in 1 litre containers. Other pack sizes are available upon request.

**SHELF LIFE**

In original sealed containers, LAB-N 111023 inks have a shelf life of 5 years from date of production.

For the exact date of expiry, please refer to the label.

**SAFETY DATA SHEETS**

Read safety data sheet prior to processing

Safety data sheets comply with Regulation (EC) No. 1907/2006 (REACH), Appendix II.

**CLASSIFICATION AND LABELLING**

Hazard classification and labelling comply with Regulation (EC) No. 1272/2008 (CLP/GHS).

**CONFORMITY**

Coates Screen Inks GmbH does not use any of the substances or mixtures for the production of printing inks, which are banned according to the EUPIA (European Association of the Printing Inks Industry) exclusion policy.

Further compliance confirmations are available upon request.

**ADDITIONAL INFORMATION ABOUT OUR PRODUCTS**

Product data sheets: Auxiliary Agents for Screen Printing HM

Brochures: Solvent Based Screen Printing Inks

Internet: Various technical articles are available for download on [www.coates.de](http://www.coates.de), section "SN-Online"

**FOR COLOUR RANGES, PLEASE REFER TO NEXT PAGE.**

**COLOUR SHADES**

<b>STANDARD Colour Range (medium opacity)</b> According to colour card Standard 1 Availability of further standard shades upon request			
white	LAB-N 111023/60-NT	black	LAB-N 111023/65-NT

Matching of PMS, RAL, NCS colours and special shades upon request.

All above information refers to the colour shades listed in this product data sheet and other standard shades of this screen ink range. Information about availability of further standard shades upon request.

In some individual cases the product characteristics of special colour shades and modifications of this ink type manufactured upon customer request may differ from the above properties.

*The statements in our product and safety data sheets are based on our present experiences, however they are no assurance of product properties and do not justify a contractual legal relationship. We provide these details to inform customers about our products and their possible applications. However, on account of various factors influencing processing of our products it is absolutely essential to carry out printing trials under local production conditions. Choice of individual ink types and their suitability for the intended application is the sole and entire responsibility of the user. We do not assume any liability for any problems of technical or process-related nature. Any liability shall be limited to the value of the goods delivered by us and processed by the user.*

*All former product data sheets are no longer valid.*

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**Coates Screen Inks GmbH**  
Wiederholdplatz 1 90451 Nürnberg  
Tel.: 0911 6422 0 Fax: 0911 6422 200  
<http://www.coates.de>