

# Screen

## 051-Series Screen Inks

051-series waterbased screen inks are ideal for printing on corrugated board paper, cardboard and under certain conditions pre-treated polyethylene and polypropylene. Fast drying, easy working, odourless and good coverage make this ink particularly suitable for printing corrugated board. Water- and outdoor resistant shades and ultra low VOC. Ink has been tested by VTT (Finnish national research centre) and it is approved printing on outside of food package.

**ADHESION:** 051-inks can be used on a variety of boards, papers that have high kobb level and treated polypropylene and polyethylene. Also wood, aluminium and concrete.

**FLEXIBILITY:** 051-inks will meet the rigorous demands of the display market for flexibility. On suitable materials several layers of 051-inks can be die cut or fold without cracking or flaking. Care must be taken that cutter is sharp.

**COLOUR RANGE:** 051-inks colour range consists of 9 standard opaque shades plus black and white. 4-colour set gives you high dot definition and color space with water- and outdoor resistant shades. Also available lower cost 510-series 4-colour set, without water resistance and for indoor use.

See table overleaf for colour range.

**PANTONE:** Pantone formulations are available for request.

**CURE SPEED:** 051-inks are quick drying and the temperature in the oven can be set to 30°C. In fast cylinder presses and with more than one layer of ink, as well as double sided prints, a temperature up to 50 °C is recommended. Cure speed is dependant upon a number of factors including film thickness, printed material and conditions in printing place.

**HARDENER:** 051-inks can be hardened if better chemical resistance and adhesion is needed.

**SCREEN STABILITY:** 051-inks are very stable for a water-based ink. After temporary printing brakes, fill the screen with ink and let stand for a short while. If you keep longer break spread the mesh with pine soap (1:5).

**STOCK:** 051-inks have been designed to print on a variety of substrates. Many arbitrary factors such as surface treatment or variations in grade may affect print properties or adhesion of 051-inks. It is always advisable to check the corona treatment of these materials before commencing a print run.

**PRINTING MATERIALS:** High quality stencil materials such as ULANO's RLX or Proclaim will enhance the print quality normally expected from using 051- inks.

Remember to use always water resistant emulsion.

Fine synthetic mesh should be used. A mesh count between 120-140 threads/cm will ensure correct ink deposits and shade. The mesh count used highly affects the outdoor resistance of the inks, consult your local Sun Chemical office for more information.

**THINNING:** 051-inks are supplied ready for use and thinning is not recommended. If it is considered essential, use water.

This information has been carefully compiled from experience gained in the laboratory and under commercial conditions. However, the product's performance and its suitability for the customer's purpose depend on the particular conditions of use and the material being printed. We recommend that customers satisfy themselves that each product meets their requirements in all respects before commencing a print run. Since we cannot anticipate or control the conditions under which our products are used it is not possible to guarantee their performance. All sales are subject to our standard terms and conditions of sale.

We would point out that the information contained in this leaflet is only a recommendation and may need to be altered to suit the conditions and efficiency of the equipment employed. SunChemical Screen products are not designed for use in conjunction with those of any other ink maker or similar supplier unless agreed in writing.

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**WASHING UP:** The screen should be washed out as soon as possible after printing especially if hardener is used. A mixture of 50% soap and 50% water is efficient or you can use 503-00817 or 503-01338 washing agent.

**COVERAGE:** Up to 50m<sup>2</sup>/kilo can be achieved with 051-inks with 120 mesh but mileage will vary according to grade of mesh, stencil thickness, machine type etc.

**SHELF LIFE:** 051- inks should be stored in sealed polythene containers at temperatures between 5-30 degrees C (40-90 F). They have a minimum shelf life of 12 months but can remain usable for long periods depending on storage conditions.

**HANDLING:** independent laboratory has tested the 051-inks for indirect foodpacking applications. Inks have been in use for a long time in the packaging industry.

<b>ADDITIVES:</b>	Washing agent	503-00817 or 503-01338
	Hardener	059-00869
	Lacquer	051-00722

<b>DILUENTS:</b>	Water
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<b>4-COLOUR SERIES:</b>	Yellow	051-22700
	Magenta	051-33700
	Cyan	051-44700
	Black	051-77700

<b>SPOT COLOURS:</b>	Yellow	051-20000	Warm red	051-30000
	Rubine red	051-30100	Rhodamine red	051-30600
	Reflex blue	051-40000	Process blue	051-40100
	Green	051-50000	Black	051-70000
	Purple	051-80000	Violet	051-80100
	White	051-90000	Silver	051-99103
	Gold	051-99102		

<b>510-SERIES:</b>	Yellow	510-25000C
	Magenta	510-35000C
	Cyan	510-45000C
	Black	510-77101C

<b>PACKING:</b>	5 kg and 10 kg plastic pail
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