



Coates Screen

Product Data Sheet

SCREEN PRINTING INKS SG

APPLICATION

Especially for printing onto PVC self adhesive foils and polystyrene boards. Also suitable for rigid PVC, polymethylmethacrylates (acrylic glass) and cellulose acetobutyrate.

Not suitable for polyolefines (polyethylene and polypropylene).

CHARACTERISTICS

SG inks are very quick drying screen printing inks. They show high gloss and a mild odour. Due to their fast drying and long screen openness SG inks are very suitable for high speed printing (cylinder printing machines) and for printing from roll to roll.

Screen printing inks SG show medium opacity. They are weather resistant and therefore suitable for outdoor advertisement.

SG inks are miscible with all plastic inks of Coates Screen Inks GmbH, (PK, PK-Jet, J, CX, HG and CP). When mixed with one of these inks, characteristics such as gloss, drying etc. will be different.

SG inks can be formed. The SG colour shades do not change if subjected too heat (180-200°C; 356-392°F) for short periods of time. However, forming tests are necessary.

PIGMENTS AND LIGHT FASTNESS

Only pigments with a light fastness of 7-8 on the wool scale (DIN 16 525) are used for screen printing inks SG.

The colour shades of SG-NT inks show heavy-metal free pigmentation and correspond to the requirements of EN 71, part 3, safety of toys, migration of certain elements.

ADJUSTMENT FOR SCREEN PRINTING

Depending on printing conditions SG inks are adjusted to printing consistency by addition of 15-20% thinner VD 20. For printing of fine details thinner VD 60 is used. In addition retarders VZ 10, VZ 20, VZ 30 and VZ 40 can be used.

DRYING

Screen printing inks SG are evaporative inks which air dry in 3-5 minutes at room temperature (20°C; 68°F) or jet dry in 20-30 seconds in a continuous dryer at 40-50°C (104-122°F). Multi-layer prints require a longer drying time.

BRONZE INKS

For printing of metallic decorative inks, binder SG B mixed with bronze pastes B 75 through B 79 (rich gold, rich-pale gold, copper and silver) is used.

Mixing ratios (parts by weight) are as follows:

Gold bronze paste: SG/B	= 1 : 4-5
Silver bronze paste: SG/B	= 1 : 5-6

When overprinting bronze inks with a regular screen ink consider that in most cases screen inks with a regular opacity do not have sufficient adhesion on the bronze coating

Readily mixed AB bronzes are available upon request. These bronzes are relatively resistant against oxidation and weathering and have a better storage life than mixtures of bronze paste and binder.

CLEANING OF STENCILS AND TOOLS

Screen printing inks SG can be removed from stencils and tools using universal cleaning agent URS.

PACKING

Screen printing inks SG are available in 1 and 5 liter containers.

SHELF LIFE

For information regarding shelf life please see tin label.

CLASSIFICATION

Read material safety data sheets prior to processing.

The material safety data sheets according to Regulation (EC) No. 1907/2006 contain classification according to preparations directive (1999/45/EC) as well as instructions for precautions when processing, handling and storing as well as first aid.

The information given in the material safety data sheet refers to processing as described in this product data sheet.

STANDARD SHADES			
citric yellow	SG 10/NT	dark blue	SG 33/NT
medium yellow	SG 11/NT	violet	SG 36/NT
light orange	SG 14/NT	light green	SG 40/NT
light red	SG 20/NT	fir green	SG 41/NT
bright red	SG 21/NT	dark brown	SG 51/NT
carmine red	SG 22/NT	white	SG 60/NT
light blue	SG 30/NT	white, highly opaque	SG 60/HD-NT
ultra marine	SG 32/NT	black	SG 65/NT
PROCESS COLOURS ACCORDING TO EUROPE SCALE			
yellow	SG 180/NT		
magenta	SG 181/NT		
cyan	SG 182/NT		
C-MIX 2000 BASE COLOURS			
primrose	SG/Y30	violet	SG/V50
golden yellow	SG/Y50	blue	SG/B50
orange	SG/O50	green	SG/G50
scarlet	SG/R20	black	SG/N50
red	SG/R50	white	SG/W50
magenta	SG/M50	varnish	SG/E50
SPECIAL INKS			
top coating	SG 70/15		
bronze binder	SG/B		
transparent paste	SG/TP		

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. They serve to advise our business associates, but it is absolutely necessary to make your own printing tests under local conditions, with regard to the intended purpose prior to starting the job. - All former product data sheets are no longer valid. APRIL 2008 – VERSION No. 3

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