



Coates Screen

Product Data Sheet

SCREEN PRINTING INKS A

APPLICATION

For substrates such as wood, varnished surfaces, primed metals, various thermoplastics with no or only a small content of plasticizers (e.g. acrylics, rigid PVC, various duroplastics). Screen printing inks A can also be used for printing onto acrylic moulds (panel inserts for the electronic industry).

CHARACTERISTICS

Screen printing inks A dry by oxidation, i.e. by absorption of air. They have a gloss to semi-gloss finish, are highly pigmented and show good opacity. Screen printing inks A are weather resistant and therefore suitable for outdoor advertising.

PIGMENTS AND LIGHT FASTNESS

Screen printing inks A are suitable for outdoor use. Only organic or inorganic pigments with a light fastness of 7-8 according to wool scale (DIN 16 525) are used. If the basic ink shades are mixed with a high content of white or clear base light fastness of the prints is reduced.

The colour shades of A-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

Prior to processing, screen printing inks A are adjusted using their corresponding thinners.

Thinner AV	for printing of surfaces and coarse characters
Retarder AD	for printing of fine details

SPRAYING

Screen printing inks A may also be sprayed. In order to adjust this ink quality to spraying consistency thinner AVSP is used.

DRYING

Screen printing inks A dry by absorption of air (oxidation drying). Drying and curing may be accelerated if heat is applied (up to 80°C - up to 176°F).

Addition of 0.25 to max. 0.5% drying agent A/ST-00 is recommended for cans already opened or inks which were on stock for several years.

DRYING TIMES

Hand dry at 20°C (68°F)	approx.	2- 4 h
Completely dry at 20°C (68°F)	approx.	12-24 h

BRONZE INKS

For printing of metallic decorative inks the bronze pastes B 75 to B 79 are available.

Bronze pastes are mixed with bronze binder AB prior to processing.

Mixing ratios should be:

Gold bronze paste : A/B = 1 : 3-4

Silver bronze paste : A/B = 1 : 4-6

If bronze inks have to be overprinted we recommend to add an additional 10-30% AB to the gold bronze mixtures. In all cases it is essential to check overprintability!

Under the influence of humidity and oxidising components in the air, bronze prints tend to oxidize. Especially gold and copper bronze screen prints will consequently become unattractive. Overprinting the bronze screen print will delay this oxidation process for some time.

SUBSTRATE

Prior to printing onto coated surfaces, board materials and injection moulds pre-tests regarding adhesion should be carried out.

Lubricants or release agents on the surface of such materials may cause bad adhesion. Often cleaning with white spirit or other agents will help.

CLEANING OF STENCILS AND TOOLS

Screen printing inks A can be removed from stencils and tools using universal cleaning agent URS or URS 3.

PACKING

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

STORAGE

If stored for longer periods of time screen printing inks A may tend to skin. In order to avoid this cans should be closed tightly or perhaps the ink should be coated with some thinner AV or retarder AD.

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	A 10/NT	ultra blue	A 32/NT
medium yellow	A 11/NT	dark blue	A 33/NT
dark yellow	A 12/NT	turquoise	A 34/NT
orange	A 15/NT	violet	A 37/NT
ochre yellow	A 17/NT	light green	A 40/NT
light red	A 20/NT	fir green	A 41/NT
red bright	A 21/NT	brilliant green	A 42/NT
carmine red	A 22/NT	light brown	A 50/NT
pink	A 25/NT	brown	A 51/NT
light blue	A 30/NT	white	A 60/NT
medium blue	A 31/NT	black	A 65/NT

PROCESS COLOURS ACCORDING TO EUROPE SCALE

yellow	A 180/NT
magenta	A 181/NT
cyan	A 182/NT

SPECIAL SHADES

transparent paste	A/TP	varnish	A 70
matting paste	A/MP	varnish mat	A 70/MT
drying agent	A/ST-00	binding agent	AB

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. 4

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