



Coates Screen

Product Data Sheet

SCREEN PRINTING INKS J

APPLICATION

Screen printing inks J are suitable for printing onto thermoplastics and especially for various PVC substrates, however not for polyolefines.

Limited suitability for polystyrene and its copolymers (no or only little adhesion of transparent, bronze and process inks and also clear J 70).

Due to different properties of the substrates pre-tests are recommended.

PROPERTIES

Screen printing inks J are quick drying and show a semi mat to mat finish. Depending on ink shade they have a medium to good opacity. J inks are weather resistant and resistant against alcohol.

Screen printing inks J are especially suitable for the production of double-sided decals. For this purpose we offer highly opaque whites and a light blocking inter-coat silver ink.

Except black and the bronze shades all J ink shades and J 66 black are suitable for high frequency welding. Addition of J/B or J 70 will improve weldability of J inks.

Pre-tests are absolutely necessary!

Screen printing inks J are especially intended for printing high quality PVC labels for the automotive industry.

Various clear systems are available for overprinting.

CHOICE OF PIGMENTS AND LIGHT FASTNESS

Screen printing inks J 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 inks are mixed with a high degree of white or varnish the light fastness of the prints is reduced.

The colour shades of J 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

Screen printing inks J are adjusted using their corresponding thinners or retarders.

Thinner VD 30	for quick running machines
Thinner JVH	for manual printing
Retarder VZ 05	for printing of fine details

DRYING

Screen printing inks J are air-drying, i.e. they dry by evaporation of solvents. Drying time is approx. 2-5 min. at room temperature. Drying times of 15-25 sec. can be achieved in a belt dryer at temperatures of 40-50°C (approx. 104-122°F).

BRONZE INKS

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

Mixing ratios should be::

Gold bronze paste	:	J/B	=	1 : 3-4
Silver bronze paste	:	J/B	=	1 : 4-6

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

Due to the influence of humidity and oxidation components in the air, bronze prints tend to oxidise. Specifically gold, copper and bronze prints will then be unattractive. Overprinting the bronze screen print will delay his oxidation process for some time.

CLEANING OF STENCILS AND TOOLS

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

PACKING

Screen printing inks J 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	J 10/NT	violet	J 36/NT
medium yellow	J 11/NT	light green	J 40/NT
light orange	J 14/NT	fir green	J 41/NT
light red	J 20/NT	reseda green	J 43/NT
red bright	J 21/NT	grass green	J 44/NT
carmine red	J 22/NT	brown	J 51/NT
light blue	J 30/NT	white	J 60/NT
ultra marine	J 32/NT	white, highly opaque	J 60/HD-NT
dark blue	J 33/NT	black	J 65/NT
		black, high-opaque	J 65/HD-NT
PROCESS COLOURS ACCORDING TO EUROPE SCALE			
yellow	J 180/NT		
magenta	J 181/NT		
cyan	J 182/NT		
C-MIX 2000 BASE COLOURS			
primrose	J/Y30	violet	J/V50
golden yellow	J/Y50	blue	J/B50
orange	J/O50	green	J/G50
scarlet	J/R20	black	J/N50
red	J/R50	white	J/W50
magenta	J/M50	varnish	J/E50
BASE COLOURS			
offset base	J 72		
offset base	J 72/04		
offset base	J 72/14		
offset base	J 72/18		
SPECIAL SHADES			
obliterating grey	J 74	white, highly opaque	
transparent paste	J/TP	free of cyclohexanone	J 60/328-HD-NT-mild

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