



Coates Screen

# Product Data Sheet

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## SCREEN PRINTING INKS M

### APPLICATION

Paper, cardboard, paperboard; also suitable for screen printing onto hard fibre boards. No additives required.

### CHARACTERISTICS

Mat screen printing inks M are modern fast drying jet inks. They show easy printability, high opacity, finest pigment dispersion and an especially low specific gravity.

Their yield is very high. Even if finest screen fabrics are used surface coverage is good and printing unproblematic.

Mat effect and compatibility with white spirit are also excellent. Due to their special binding agents they show good resistance to many poster glues (outdoor poster applications).

Scratch and bending resistance is good, however can be improved by addition of 5% elastifying agent W 1.

Due to their mat finish M inks are a little sensitive so that overprinting is useful to increase resistance. Suitable varnish, also dilutable with white spirit, is M 70.

### COMPATIBILITY WITH OTHER SCREEN PRINTING INKS

M inks are compatible to our other paper screen printing inks. They can be mixed with screen printing inks DC and ZA.

### PIGMENTS AND LIGHT FASTNESS

Lead free pigments with a light fastness meeting the requirements for paper, cardboard and paperboard are used.

Most ink shades are manufactured using selected pigment combinations with positive effects on opacity, gloss and yield.

The colour shades of the M ink range 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

Mat inks M are delivered in paste form. Prior to printing they have to be adjusted to printing consistency using commercial white spirit or the following special thinners:

<b>Thinner MVH</b>	for manual screen printing
<b>Thinner MVS</b>	for machine printing
<b>Retarder MD</b>	for fine details

For use of retarders VZ 10, VZ 20 and VZ 30 please refer to our product data sheet "HM Additives".

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## **DRYING**

Screen printing inks M dry by evaporation of solvents, i.e. air drying as required for quick drying paper screen inks.

Drying time is approx. 10-15 minutes at room temperature and only a few seconds in a jet dryer with heat application or air circulation.

## **ADDITIVES**

Additives available for M inks are clear paste M/KP and transparent paste M/TP, especially for solid and process printing.

For solid prints on light substrates yield of screen printing inks M can be increased by adding crystal paste M/KP. This will not affect brilliance.

Addition of mat transparent paste M/TP to halftone inks will achieve flatter ink films and more exact halftone dots.

## **BRONZE INKS**

For printing of metallic decorative inks, bronze pastes B75-B79 are available (rich gold, rich pale gold, pale gold, copper and silver). They are mixed with bronze binder M/B prior to processing.

Mixing ratios (parts by weight) should be:

Gold bronze paste: M/B = 1 : 2-4

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

When overprinting bronze prints consider that a screen printing ink with regular opacity does not have sufficient adhesion on the rich bronze coating. This problem can be solved by adding 10% binder to the screen ink used for overprinting.

Pretests should be carried out for these applications.

## **STENCILS**

As screen printing inks M do not contain any aggressive solvents all direct and indirect stencil materials can be used. This does not apply if universal retarders are used.

## **CLEANING OF STENCILS AND TOOLS**

Screen printing inks M can be removed from stencils and tools using white spirit or universal cleaning agent URS.

## **PACKING**

Screen printing inks M are available in 1 and 5 liter containers. There is no skinning in long term storage.

## **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.

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### STANDARD SHADES

citric yellow	M 10/NT	marine blue	M 35/NT
medium yellow	M 11/NT	violet	M 36/NT
dark yellow	M 12/NT	light green	M 40/NT
light orange	M 14/NT	fir green	M 41/NT
orange	M 15/NT	brilliant green	M 42/NT
ochre yellow	M 17/NT	reseda green	M 43/NT
light red	M 20/NT	grass green	M 44/NT
red bright	M 21/NT	light brown	M 50/NT
carmine red	M 22/NT	dark brown	M 51/NT
dark pink	M 24/NT	white	M 60/NT
light blue	M 30/NT	white, highly opaque	M 60/HD-NT
medium blue	M 31/NT	white, matt	M 60/MT-NT
ultra marine	M 32/NT	black	M 65/NT
dark blue	M 33/NT	black, highly opaque	M 65/HD-NT
turquoise	M 34/NT		

### PROCESS COLOURS ACCORDING TO EUROPE SCALE

yellow	M 180/NT
magenta	M 181/NT
cyan	M 182/NT
black	M 65/40-NT

### FLUORESCENT COLOURS

yellow	M 90	red	M 93
orange	M 91	pink	M 94

### SPECIAL COLOURS

transparent paste	M/TP
crystal paste	M/KP
bronze binder	M/B
varnish	M 70

*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. 5*

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