



Coates Screen

# Product Data Sheet

## SCREEN PRINTING INKS XL

### APPLICATION

Screen printing inks XL are especially suitable for polystyrene injection moulds (tablet boxes and tubes), polystyrene dishes (decoration, adjustment NT), scales sensitive to tension cracks, gloss-laminated polystyrene and styro-foam.

### CHARACTERISTICS

Screen printing inks XL were specially developed for package printing. They only contain relatively mild solvents. Therefore there is no risk of tension cracks when printing onto gloss-laminated polystyrene styro-foam injection moulds.

XL inks show excellent resistance to various cosmetic substances (skin creams, oils etc.). They are also resistant to dishwashing liquid on polystyrene dishes (only for outside decoration in adjustment NT). Screen printing inks XL show good opacity, a glossy finish and weather resistance.

### PIGMENTS AND LIGHT FASTNESS

XL inks only contain pigments with a light fastness of 7-8 according to wool scale (DIN 16 525). For special shades choice of pigments is subject to intended application.

Also available in the transparent shades of the 380 series (see leaflet "Screen Printing Inks PF and XL inks for projection foils").

The colour shades of the XL range do not contain heavy metal pigmentation and correspond to the requirements of EN 71, safety of toys, part 3, migration of certain elements.

### ADJUSTMENT FOR SCREEN PRINTING

Prior to processing, Screen printing inks XL are adjusted using the following thinners.

<b>Thinner VD 10</b>	for machine printing
<b>Thinner XVH</b>	for manual printing
<b>Universal retarder XD</b>	for printing of fine details

### DRYING

Screen printing inks XL are air-drying, i.e. they dry by evaporation of solvents. Drying time is approx. 8-10 min. at room temperature (20-25°C).

Depending on substrate, belt speed, temperature etc. faster drying times can be achieved in a continuous dryer

### BRONZE INKS

For printing of metallic decorative inks the bronze pastes are mixed with bronze binder XL/B prior to processing.

Mixing ratios (parts by weight) should be:

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

**CLEANING OF STENCILS AND TOOLS**

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

**PACKING**

Screen printing inks XL 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.

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STANDARD SHADES			
citric yellow	XL 10/NT	blue violet	XL 36/NT
medium yellow	XL 11/NT	light green	XL 40/NT
orange	XL 14/NT	fir green	XL 41/NT
light red	XL 20/NT	dark brown	XL 51/NT
red bright	XL 21/NT	white	XL 60/NT
carmine red	XL 22/NT	white, highly opaque	XL 60/HD-NT
light blue	XL 30/NT	black	XL 65/NT
ultra marine	XL 32/NT	black, highly opaque	XL 65/HD-NT
dark blue	XL 33/NT		
PROCESS COLOURS ACCORDING TO EUROPE SCALE			
yellow	XL 180/NT		
magenta	XL 181/NT		
cyan	XL 182/NT		
TRANSPARENT SHADES			
transparent yellow	XL 380/NT	transparent violet	XL 383/NT
transparent red	XL 381/NT	transparent orange	XL 385/NT
transparent blue	XL 382/NT		
SPECIAL INKS			
overprint varnish	XL 70		
bronze binder	XL/B		
transparent paste	XL/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*

Coates Screen Inks GmbH  
Wiederholdplatz 1 90451 Nürnberg  
Phone: 0911 6422 0 Fax: 0911 6422 200  
<http://www.coates.de>