



Coates Screen

# Product Data Sheet

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## 2-COMPONENT SCREEN PRINTING INKS Z/DD

### APPLICATION

For pre-treated polyolefines, such as polyethylene and polypropylene as well as other thermoplastics. Also for duroplastics, such as polyesters reinforced by glass fibre, pheno- and aminoplastics and varnished parts (air and oven curing, also 2-component varnishes).

### PROPERTIES

After sufficient drying 2-component Z/DD show high gloss, good weather and thus outdoor resistance as well as best possible solvent resistance. However testing should not be carried out until 3 days after printing.

### CHOICE OF PIGMENTS AND LIGHT FASTNESS

Screen inks Z/DD only contain pigments with a light fastness of 7-8 on the wool scale (DIN 16525).

Colour shades of Z/DD inks only contain heavy metal free pigmentation and correspond to the requirements of EN 71, safety of toys, migration of certain elements.

### ADJUSTMENT FOR SCREEN PRINTING

2-component inks Z/DD are mixed with hardener ZH/N ratio 3 : 1 prior to processing. This mixture should then be allowed to react for a period of 15-20 minutes (degassing) prior to printing. Depending on room temperature the pot life is approx. 6-8 hours.

Hardener ZH/N shows good weather and yellowing resistance.

**When using ZH/N drying temperature (air drying) should not be below 20°C.**

Printing consistency is adjusted using the thinners for 2-component screen printing inks, i.e.

**Thinners VD 20, VD 60  
Retarders VZ 25 and VZ 40**

### DRYING

At room temperature not below 20°C for a period of 24 hours (depending on layer thickness). Following a flash time (20 minutes at room temperature prints) prints can be dried within 2-4 hours at 60-80°C.

### OVERPRINTING

If Z/DD inks are to be overprinted, this should be done within 24 hours after printing, as otherwise there is no guarantee that there will be a linkage with the first print. This also applies to the coloured shades of series Z/DD.

### CLEANING OF STENCILS AND TOOLS

We recommend to use our cleaning agent URS 3 or thinner VD 40.

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## PACKING

Z-DD inks are available in 1 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.

<b>C-MIX-2000 BASE COLOURS</b>			
primrose	Z/DD-Y30	violet	Z/DD-V50
golden yellow	Z/DD-Y50	blue	Z/DD-B50
orange	Z/DD-O50	green	Z/DD-G50
scarlet	Z/DD-R20	black	Z/DD-N50
red	Z/DD-R50	white	Z/DD-W50
magenta	Z/DD-M50	varnish	Z/DD-E50
<b>SPECIAL INKS</b>			
high gloss overprint varnish, also suitable as anti graffiti varnish			Z 70/11-DD
mat varnish, especially suitable for keyboard foils			Z 70/68-DD
flexible overprint varnish			Z 70/76-DD

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*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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