



Coates Screen

Product Data Sheet

SCREEN PRINTING INKS ZMN

BASE

ZMN is a screen ink system based on weather resistant acrylic resin. Due to the lightfast pigments and weather resistant binding agent system of ZMN prints are suitable for outdoor use for several years. ZMN prints retain their gloss finish for long periods of time.

APPLICATION

Screen printing inks ZMN were mainly developed for printing onto beer crates. Beer crates printed with ZMN show high durability in every day use.

In addition ZMN inks are suitable for printing onto polyolefine containers and thermoplastics like ABS, acrylics as well as various duroplastics.

PIGMENTS AND LIGHT FASTNESS

The light fastness of all colour shades is 7-8 according to wool scale (DIN 16 525). The pigments used show high outdoor and chemical resistance.

ZMN inks show heavy-metal free pigmentation and correspond to the requirements of EN 71, part 3, safety of toys, migration of certain elements.

PROCESSING

For printing onto beer crates ZMN inks are mixed with hardener ZH in a ratio of 4:1 parts by weight. For printing other materials hardener ZH/N (less yellowing component) can be added at a ratio of 4 : 1 to 8 : 1.

The pot life is approx. 8 hours at 20°C. Mixed bronzes may reduce pot life considerably. Higher temperatures and high humidity also reduce pot life.

Clear ZMN 70/13 or E50 is mixed with hardener ZH/N at a ratio of 3 : 1.

Use VD 60 as thinner and VZ 25 or VZ 40 as retarders. For processing of quality ZMN in spray applications thinner ZVSP is recommended.

BRONZE SHADES

Gold and silver bronzes 75 AB, 76 AB, 77 AB and 79 AB are available as bronze shades with increased outdoor resistance.

DRYING

ZMN inks dry within 12 to 24 hours at room temperature.

In order to reduce drying time of multilayer applications it is possible to dry at 80-120°C (176-248°F) for 10-20 minutes in a drying chamber.

Overprintability of the individual layers will be reduced to a great extent if temperatures applied are too high (e.g. post-flaming).

CLEANING OF STENCILS AND TOOLS

For cleaning of stencils and tools we recommend our thinner VD 40. Use of our universal cleaning agent URS 3 is also possible.

When cleaning screens and tools 2-component inks should be removed immediately after work is finished.

PACKING

ZMN 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.

PROCESS COLOURS ACCORDING TO EUROPE SCALE			
yellow	ZMN 180/NT		
magenta	ZMN 181/NT		
cyan	ZMN 182/NT		
C-MIX-2000 BASE COLOURS			
Primrose	ZMN/Y30	violet	ZMN/V50
golden yellow	ZMN/Y50	blue	ZMN/B50
orange	ZMN/O50	green	ZMN/G50
scarlet	ZMN/R20	black	ZMN/N50
red	ZMN/R50	white	ZMN/W50
magenta	ZMN/M50	varnish	ZMN/E50

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

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