



Coates Screen

Product Data Sheet

PROCESS INKS RF-K

APPLICATION

Screen printing inks RF-K are used for the production of four colour process prints on various thermoplastics, e.g. polystyrene boards, rigid and plasticized PVC foils, acrylic glass, polycarbonate, acetobutyrate etc. Prints, made with RF-K are suitable for outdoor use.

CHARACTERISTICS

RF-K are very fast drying inks. As required for halftone printing they have a good screen openness. Flow properties of RF-K have been adjusted so that the contour sharpness of the halftone dots is maintained even with very fine resolution.

PIGMENTS AND LIGHT FASTNESS

Halftone inks RF-K contain pigments with a light fastness of 7-8 according to wool scale (DIN 16 525). They meet the requirements for outdoor advertising.

The colour shades of RF-K 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

In order to adjust to printing consistency use thinner VD 20. As these inks were formulated to remain open in the screen, it is generally not necessary to use a retarder, but if necessary thinner VD 60 or retarder paste for plastics V/PK should be used.

Two different types of RF-K are available.

1. **RF-K inks.**
They are reduced using transparent paste TP-K. Mixing ratio approx. 4:1 (parts ink to 1 part transparent paste).
2. **RK-K concentrates.**
They are reduced using transparent paste TP-K. Mixing ratio approx. 1:10 (1 part concentrate to 10 parts transparent paste).

In order to adjust the colour density required for printing the process inks or concentrates should be reduced with transparent paste for plastics TP-K at above mixing ratios. Use of process concentrates will facilitate stock keeping.

DRYING

Halftone inks RF-K are evaporative and require temperatures of approx. 30-40°C (68-104°F) in a jet dryer. These low temperatures keep the substrate from being exposed to additional heat so that better registration can be achieved.

We recommend to check each colour print following the first colour prior to stacking, especially when printing a job on both sides of the substrate.

CLEANING OF STENCILS AND TOOLS

Screen printing inks RF-K can be removed from stencils and tools using universal cleaning agents URS and URS 3.

PACKING

Screen printing inks RF-K 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	
black	RF-K 65/NT
PROCESS COLOURS ACCORDING TO EUROPE SCALE	
yellow	RF-K 180/NT
magenta	RF-K 181/NT
cyan	RF-K 182/NT

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

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