



Coates Screen

Product Data Sheet

UV-CURING SCREEN PRINTING INKS MUSKETEER MTR

PROPERTIES

MUSKETEER MTR is a UV-curing, universal ink series for various plastics. The printed parts can be deep-drawn.

APPLICATION

Soft and rigid PVC, polystyrene, acrylics, polycarbonate as well as some PET grades. The properties of substrates of different manufacturers often vary considerably. Therefore, pre-tests prior to starting the production run are absolutely necessary. Prior to printing stackability has to be checked as well.

PROCESSING

MUSKETEER MTR can be processed under artificial light. Protect from direct sun light. MUSKETEER MTR line colours flow with an even, glossy surface. Process colours show satin-gloss finish. The inks come in ready-to-print consistency, normally thinning is not necessary. Commercial UV thinners should not be used as otherwise deep-drawing can be effected negatively. If necessary, viscosity can be adjusted using MTR/V.

DRYING

MUSKETEER MTR only cures under UV-radiation. The curing time depends on number, type, power and distance of the UV-radiators as well as on ink deposit which depends on screen fabric. As orientation value a curing energy of 250-300 mJ/cm² (measured with Kühnast UV-Integrator) can be stated. This corresponds to a UV-dryer with two radiators (120W/cm, distance 10 cm), belt speed of approx. 20 m/minute, 150-31 fabric. As the ink is not totally cured after this time one should wait about 2-3 hours before starting any further chemical and physical tests/processing.

As with all UV curing ink types, the ink is completely cured after 24 hours.

SCREEN FABRIC

All commercial screen fabrics can be used e.g. polyester fabrics between 120-34 and 150-31 threads/cm.

SQUEEGEE

Squeegee made of hard rubber or plastic are suitable. We recommend squeegees with a hardness of 60-75°shore A.

STENCILS

All solvent-resistant stencils are suitable.

CLEANING OF SCREENS

The screens can easily be cleaned using our screen cleaning agents URS or URS 3.

PACKING

UV-curing screen printing inks MUSKETEER MTR are available in 5 kilo cans only.

SHELF LIFE

For information regarding shelf life please see tin label.

OUTDOOR EXPOSURE

Accelerated weathering tests have been carried out. Those tests indicate outdoor resistance of approx. 2 years in moderate climates.

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	MTR 180		
magenta	MTR 181		
cyan	MTR 182		
black	MTR 65		
transparent paste	MTR/TP		
C-MIX 2000 BASE COLOURS			
primerose	MTR/Y30	violet	MTR/V50
golden yellow	MTR/Y50	blue	MTR/B50
orange	MTR/O50	green	MTR/G50
scarlet	MTR/R20	black	MTR/N50
red	MTR/R50	white	MTR/W50
magenta	MTR/M50	varnish	MTR/E50
ADDITIVES			
Special thinner	MTR/V		

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. 8

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