

Technical information

Screen Inks



Micro Plast - MT

Quick Drying, Matt Finish, Opaque

Screen Inks for Graphics



Substrates:

Flexible and rigid PVC, Polystyrene, HIPS, ABS, Polycarbonate, Acrylic, Cellulose acetate

Application

Micro PLAST -MT matt-finish inks are based on a special resin system which provides excellent fade and weather resistance for outdoor application on rigid and flexible plastics. Added to this, these inks offer many other features to make the range suitable for a variety of applications as mentioned below:

- Outdoor display advertising panels and internally illuminated signs due to excellent fade and weather resistance
- Molded articles and gift novelties
- Window graphics
- Labels and self adhesive stickers
- Shoe uppers

Characteristics

- Excellent light fastness property due to specialized fade resistant pigments used (Blue wool scale 7-8)
- Non-toxic, meets EN- 71 part 3 Toy safety standard for heavy metals*
- Excellent flexibility, adhesion, weather resistance, alcohol and petrol resistance
- Quick drying - suitable for rapid production
- Excellent screen stability - ideal for 4-colour process inks job
- Thixotropic in nature - does not drip through mesh when the machine is standstill

Drying

The print becomes surface dry in 4 to 6 minutes and hard dry in 25 to 30 minutes at a temperature of 25°C making them suitable for stacking

It takes about 1 to 2 minutes to become tack-free dry when passed through a tunnel oven at 50 to 70° C

Range

Micro PLAST -MT Matching System: Almost any shade can be matched by mixing the selective inks of the matching system which comprises of the basic shades as follows:

Match Light Yellow	MT -101	Match Violet	MT -141
Match Mid Yellow	MT -102	Match Ultra Blue	MT -151
Match Deep Orange	MT -111	Match Deep Blue	MT -152
Match Scarlet Red	MT -121	Match Green	MT -161
Match Carmine Red	MT -122	Match Tinting White	MT -171
Match Magenta	MT -131	Match Tinting Black	MT -181
Mixing Clear Base	MT -191	Mixing Extender Base	MT -192

Spot Colours

Bright Yellow	MT - 201	Sky Blue	MT - 251
Light Yellow	MT - 301	Royal Blue	MT - 252
Mid Yellow	MT - 302	Reflex Blue	MT - 253
Light Orange	MT - 211	Yellow Green	MT - 261
Deep Orange	MT - 311	Grass Green	MT - 262
Vermillion	MT - 221	Forest Green	MT - 263
Scarlet	MT - 322	Opaque White	MT - 271
Brilliant Red	MT - 223	Brilliant White	MT - 272
Purple	MT - 241	Dense Black	MT - 281

*Note: MT- 301, MT -302, MT -311, MT -322 are Lead containing inks which do not comply with EN-71.3

Fluorescent Inks

Lemon Yellow	MT - 501
Golden Yellow	MT - 502
Orange	MT - 511
Red	MT - 521
Magenta	MT - 531
Green	MT - 561

Process Colours

Cyan	MT - 401
Magenta	MT - 402
Yellow	MT - 403
Black	MT - 404

By adding Extender Base MT-192, the ink density can be reduced. The ink density can be increased by adding ink concentrates for the process colours in required proportion or by using a coarser mesh.

Metallic Inks (Bronzes)

Rich Gold	SH - 801
Rich Pale Gold	SH - 802
Silver	SH - 804
Sparkling Rich Gold	SH - 841
Sparkling Rich Pale Gold	SH - 842
Sparkling Silver	SH - 844
Metallic Clear Base	MT - 191

Mixing ratio of Metallic Pigment with Metallic Clear Base 1: 10 to 1:5

The metal made by mixing the metallic pigment with Metallic Clear Base should be processed within 6-8 hours.

Yield : 60-70 sq meters. (with 120.34 mesh/cm. and 10-15 % dilution with Reducer / Retarder.)

SCREEN ATM:

Any Quantity

Any Colour

Any Substrate

Any Time

Micro Inks revolutionises screen inks with its Screen Inks ATM (Any Time Matching). Get your screen inks in 15 minutes flat.

Micro Inks Limited offers INSTANT COLOUR MANAGEMENT SOLUTION to commercial printers, packaging companies and distributors by introducing Computerized Colour Matching Software.

Contact us for detail information on Technology, Infrastructure and Equipments.

Auxiliaries :

Reducer : AX-901 can be added 10 to 20 % to the ink to get desired consistency

Retarder : AX-902 can be added 10 to 20 % to the ink to get desired consistency when required to make the ink slow drying. Even a suitable combination of the Retarder with the Reducer can be used to get desired retarding effect

Quick Dry Reducer : AX -903 can be used instead of AX - 901 for very high speed printing job

Over Print Varnish MT-193 : For improvement of fade resistance of the print

Accessories :

Fabric : Polyester or Nylon mesh of 100-140T are suitable. Even 77-90T can be used depending upon the type of job and the substrate to be printed to achieve desired opacity or print effect

Stencil : All solvent resistant stencils can be used

Squeeze : Generally 65-75 durometer sharp edge squeezes are suitable

Material Safety Data Sheet is available on request

Note : The Technical information sheet reflects the current state of our knowledge. This information is compiled based upon field experience and extensive laboratory testing. However, customers are requested to satisfy themselves that the products meet their requirements in all respects before starting a print run. Since the printing conditions are not under our control, no guarantee can be given for their performance

