

# Micro Graph - MR

Quick Drying, Matt Finish, Opaque

## Screen Inks for Graphics



### Substrates:

Substrates: Paper, card, cardboard, art papers, chromo papers

### Application

Micro GRAPH-MR is a range of quick-drying screen inks with velvet like matt finish for the applications for decorative printing jobs like posters, labels, letterheads, invitation cards, folders, display articles, four colour half-tone printing, packaging, etc. on a wide variety of papers, cards, cardboards, art papers, coated papers, etc

### Characteristics

- Velvet like matt finish
- Solvent based quick drying inks -suitable for high speed printing jobs
- Good screen stability for a smooth print operation
- Non-toxic, meets EN- 71 part 3 Toy safety standard for heavy metals\*

### Drying

The print becomes surface dry in 8-10 minutes and tack-free dry in 20-30 minutes at a temperature of 25° C making them suitable for stacking

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

### Range

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

### Spot Colours

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

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

### Fluorescent Inks:

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

### Process Colours :

|         |         |
|---------|---------|
| Cyan    | MR -401 |
| Magenta | MR -402 |
| Yellow  | MR -403 |
| Black   | MR -404 |

By adding Extender Base MR -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

**Yield :** 50-60 sq. meters. (with 120.34 mesh/cm. and 10-15% dilution with Reducer/ Retarder)

### 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      | MR- 191  |

Mixing ratio of Metallic Pigment with Metallic Clear Base 1: 1 0 to 1:5

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

### 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

**Cleaning Aid:** AX-904 can be effective for cleaning the mesh

### 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

