

Speciality **ink** Screen

**Auto Dial,
Graphic Overlay**

PERFECT MATT PM

Outdoor Screen Inks for Wide Range of Plastics

FEATURES

- Solvent Based
- Good Outdoor Durability
- Exceptionally Low Odour
- Smooth Matt Finish
- High Opacity
- Excellent Screen Stability & Self Solvency
- Suitable for Machine & Manual Printing
- Good Flexibility
- Suitable for Vacuum Forming
- Good Resistance to a Wide Range of Solvents
- Unlimited Colour Matching Capability
Capability of Matching Metallics

Substrate :

Wide range of plastics such as:
PVC, CAB, ABS, PC, Acrylics &
Coated Polyester

TEST INKS ON SUBSTRATES
BEFORE PRODUCTION RUN.

SERICOL
More than ink...Solutions.
FUJIFILM

Applications:

The Perfect Matt PM inks are widely used for outdoor signage, POP display, decal, automotive dial, graphic overlay (e.g., membrane switches) & vacuum forming.

Colour Range:

The Perfect Matt PM Ink System includes 12 standard line colours, an extender base and a set of trichromatic (halftone) colours.

Colour Matches:

Colour matches can be developed and supplied

A) Standard Colours:

PM 001	Black
PM 021	White
PM 023	Extra Opaque White
PM 041	Light Yellow
PM 043	Mid Chrome (T)
PM 114	Orange
PM 121	Vermilion (T)
PM 127	Deep Violet
PM 164	Red (B/S)
PM 165	Magenta
PM 191	Red (Y/S)
PM 230	Blue

B) Trichromatic (Halftone) colours:

PM 004	Trichromatic Black
PM 052	Trichromatic Yellow
PM 135	Trichromatic Magenta
PM 215	Trichromatic Cyan

Metallic

A wide range of metallics can be colour matched

C) Perfect Matt PM Reducers:

SS 557	Reducer
SS 558	Slow Reducer (Retarder)

Note: The slow reducer will increase the drying time of print, whilst the reducer will not change the drying time of print.

Outdoor Use - Line Colours:

Perfect Matt PM inks have been successfully tested for weathering in a QUV Weatherometer, as per ASTM G53 test specification, using UVB-313 lamps. The inks withstood almost 2000 hours without appreciable colour change or deterioration evident; the only exception being PM-164 Red (BS).

Accelerated weathering tests cannot be precisely related to outdoor performance. However, the Perfect Matt PM line colours are expected to have a minimum outdoor exposure of two years. Like all matt inks, Perfect Matt PM will tend to trap atmospheric dirt on its surface. To avoid this, overprinting with Polyplast PY433 overprint varnish is recommended.

Outdoor Use - Trichromatic Colours:

Trichromatic Perfect Matt PM inks have exceptional weathering resistance when overprinted with Polyplast PY433 EL Overprint Varnish; could be five years and above. In view of the matt finish, use of PM inks for long life exposure without PY433 overprint is not recommended, as the prints will pick up atmospheric dirt. Where a long life line ink is required for use with trichromatic colours, Polyplast IN EL colours, overprinted with Py433 should be used. To obtain maximum weathering resistance properties from PM trichromatic colours, the following recommendations must be observed: substrate must be top surface printed

Caution: All metallic inks must be overprinted with Polyplast PY433 EL Overprint Varnish for outdoor exposure.

- a) Maximum of 25% extender base (PM-396) to be added to any colour.
- b) No other ink or varnish to be added.
- c) Finished prints to be mounted vertically.
- d) Universal Tinters must not be added to any ink or varnish.

Thinning:

Maximum of 20% by weight of ink used. Various options for thinning are available. Please refer to section on Perfect Matt Reducers.

Mesh:

Print the Perfect Matt PM inks & metallics through 90/cm to 120/cm, monofilament polyester fabric, depending on the application. Depending on particle size, metallics may have to be printed through mesh that is coarser than 90/cm. For fine details & half tone printing, use amber or yellow coloured fabric.

Stencils:

Stencils can best prepared with Sericol's stencil making products:

Xtend Prep 101 for abrasion of screen mesh

Xtend Prep 102 for degreasing of screen mesh

Emulsions: Dirasol 132(one pack) or Dirasol 915(two pack)

Wash Up:

Wash up screens with SS 639 universal screen wash. This will ensure long life of stencils made

Coverage:

Perfect Matt PM inks should give coverage of 30 to 35 sq.m./kg, when printed through a 90/cm mesh.

Drying:

Air dry: up to 15 minutes. Do not stack prints immediately. Allow sufficient time for through cure.

Jet dry: 50 degree centigrade, for up to 20 seconds. Prints must be cooled to ambient temperature before stacking.

Pre-production Test:

Always test for adhesion and other properties before each production run because there can often be significant differences between substrates from different manufacturers and even between different batches.

Important: End user must determine suitability of this product for the intended use prior to production.

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Storage:

- Keep inks in cool place, away from direct sunlight.
- Keep lids tightly closed when not in use.
- Any unused ink should not be returned to can, must be stored separately.

Shelf life is two years from the date of manufacturing.

Stir well before every use.

Co-Use with other Sericol Inks:

Perfect Matt PM may be safely intermixed with

Safety and Handling:

Product marked (T) Contain lead and therefore should not be used on objects liable to be chewed by children and may cause harm to unborn child.

Comprehensive information on the safety and handling of Perfect Matt PM screen inks and Reducers / Solvents is given in the Material Safety Data Sheet, which is available on request.

Environmental Information:

Perfect Matt PM ink system does not contain ozone-depleting chemicals as described in the Montreal Convention.

Fujifilm Sericol India Pvt Ltd

- Has certification to the international Environmental Standard, ISO 14001.
- Is committed to minimizing the risk to users of our products, and also to minimizing the impact of our activities on the environment, from formulation through to production and supply.
- Regularly review and monitor our impacts and activities, setting objectives and targets as part of a continual improvement process.
- Is committed to reduce waste through better use of raw materials, energy, water, re-use and recycling.

Important Note:

The information and recommendations contained in this product information sheet as well as technical advice otherwise given by representative of our company, whether verbally or in writing, are based on our present knowledge and experience. Such information/ technical advice is given in good faith, but without warranty, in view of the many factors that may affect processes or applications as we cannot cover or anticipate every possible application of our products and because manufacturing methods, printing stocks and other materials vary.

For the same reason our products are sold without warranty and on condition that users shall make their own tests to satisfy themselves that the products will meet fully the particular requirements of the labels/ brands/ agencies of their clients and also that no proprietary rights and existing laws and legislation are violated.

Our advice does not relieve processors from the responsibility of carrying out their own tests and experiments, nor does it imply any legally binding assurance in respect of properties or suitability for a specific purpose or of the legal status of the listed products.

Our policy of continuous product improvement might make some of the information contained in this product information sheet out of date and users are requested to ensure that they follow current recommendations.

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