

Speciality Screen Inks

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

Thinning

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

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 be prepared with Sericol's stencil making products:

- Xtend Prep 101: for abrasion of screen
- Xtend Prep 102: for degreasing of screen

Emulsions: Dirasol 132 single pack or Dirasol 915 two-pack.

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.

Coverage

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

Wash Up

Wash up screens with SS639 Universal Screen Wash. This will ensure long life of stencils made with Dirasol emulsions.

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 (not under surface) and overprinted with PY433 EL Overprint Varnish.

- maximum of 25% extender base (PM-396) to be added to any colour.
 - no other ink or varnish to be added.
 - finished prints to be mounted vertically.
 - Universal Tinters must not be added to any ink or varnish.
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Pre-Production Test

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

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.

Storage

- Keep inks in a cool place, away from direct sunlight.
- Keep lids tightly closed when not in use.
- Any unused ink should not be returned to the can; must be stored separately.
- Shelf life is two to three years from the date of manufacture.
- Stir well before every use.

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.

Line Colours

PM-001	Black
PM-021	White
PM-023	Extra Opaque White
PM-041	Light Yellow
PM-043	Mid Chrome Yellow (T)
PM-102	Deep Orange (T)
PM-121	Vermilion (T)
PM-127	Deep Violet
PM-164	Red (BS)
PM-165	Seritone Magenta
PM-230	Seritone Blue
PM-325	Seritone Green
PM-381	Extender Base

Trichromatic (Halftone) Colours

PM-004	Trichromatic Black
PM-052	Trichromatic Yellow
PM-135	Trichromatic Magenta
PM-215	Trichromatic Cyan
PM-396	Trichromatic Extender Base

Metallic

A wide range of metallics can be colour matched on request.

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

Colour Matches

Colour matches can be developed and supplied against prints and / or wet ink.

Solvents

SS-557	Reducer
SS-558	Slow Reducer (Retarder)
SS-639	Universal Screen Wash

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

Co-Use with other Sericol Inks

Perfect Matt PM may be safely intermixed with Polyplast IN, although compatibility should always be checked before taking production run.

Safety and Handling

- Products 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.
- All other products are formulated free from lead and other heavy metals and are tested as per EN71-3:1988 Toy Safety Standard.

Comprehensive information on the safety and handling of Perfect Matt PM screen inks and 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

The information and recommendations contained in this Product Information sheet, as well as technical advice otherwise given by representatives of our Company, whether verbally or in writing, are based on present knowledge and believed to be accurate. However, no guarantee regarding their accuracy is given 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 they will meet fully their particular requirements. 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



International Standards
Certification
R.No: QA03R18019

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Certification
R.No: EMSR010019

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