

IcoPrint Matt VM

Solvent-based Screen Inks

Issue No. 008/2019

IcoPrint Matt VM is a highly opaque ink with low odour and excellent printability, designed for use on PVC and other plastics. A set of long life trichromatic colours is also available.

Plastics

Some plastics may be impregnated with lubricants which, like plasticiser migration, may impair adhesion and block resistance even a considerable period after printing. This can usually be overcome by wiping the surface with White Spirit before printing. Surface adhesive left from protective papers on rigid PVC and acrylic sheets should be thoroughly removed in line with supplier's instructions.

Some plastics can become brittle when printed, possibly to the point of shattering, often only after several weeks. It is therefore essential to check compatibility between ink and plastic to guard against all these problems.

Vacuum Forming

Matt VM inks are suitable for vacuum forming on PVC, Polystyrene, ABS and certain grades of CAB and Cellulose Acetate. **IcoPrint Matt VM** should be chosen whenever a matt finish is preferred.

Outdoor Use

Accelerated weathering tests have been carried out in a Marr Weatherometer, set on the BS 3900 F3 Cycle, on prints produced using **IcoPrint Matt VM**.

Under these conditions, the Line Colours with the exception of, **VM164** Red (BS), **VM190** Deep Orange LF, withstood 2,000 hours of testing before significant colour deterioration was evident. 2,000 hours equates to approx. 24 months outdoor exposure in the UK or a similar climate.

For long life exposure in an external environment, we recommend using the Four Colour Process inks, which can withstand up to 5 years of product durability.

Like all matt inks, **Matt VM** will tend to trap atmospheric dirt on its surface. To avoid this, over-varnish with **VG433** IcoPrint Vinyl Gloss VG EL Overprint Varnish (See Information Sheet 'IcoPrint Vinyl Gloss VG EL System').

VM164 and **VM190** are not recommended for outdoor exposure greater than 12 months.

Rich Pale Gold, Metallic Bronze and Copper are not recommended for outdoor use as these Metallic shades are known to tarnish.

Main Characteristics

Finish

Matt

Drying

Jet drying: 50°C, 12-16 secs.

Air drying: flexible PVC 4-7 mins., rigid PVC up to 10 mins.

Thinning and Wash-up

Standard Thinner: 10-15% with **ZVC557HF**.

Slow production or very fine detail in hot conditions use **ZV558**.

Wash up with Screen Wash Universal **ZTC369**

Mesh

90-120 Monofilament Fluorescents, Metallics and Varnishes..

Stencil Type

Any type except solvent adhering film & Stenplex Amber.

Recommend:

Indirect or 25 Micron Capillary Film

Dirasol 916

Coverage & Mesh No.

32-35m²/kg No. 90

Applications

Self-adhesive stickers and labels (including under surface printing),

Self-Cling, top coated polyester, acrylics, ABS, CAB.

Properties

Exceptionally low odour of wet ink and finished print. Fast, jet drying to smooth finish with high opacity. Excellent screen stability and print definition. EN71 Approved Colours.

Co-Use with Other Inks

Matt VM may be mixed with other solvent based inks for colour-matching purposes – check compatibility before commencing print run.

Matt VM may be overprinted by **Fluorescent VF**. Where maximum interface adhesion between colours is required, a single ink system should be used.

IMPORTANT: Stir well before every use. Always test application fully before beginning a production run as there is often considerable variance in plastics from different manufacturers and even between different batches.

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Colour Range - Standard System

Line Colour:

VM001	Black
VM021	White
VM023	Opaque White
VM030	Tinting White
VM041	Light Yellow
VM080	Mid Yellow
VM127	Deep Violet
VM164	Red (BS)
VM165	Magenta
VM190	Deep Orange LF
VM191	Verm Red LF
VM230	Blue
VM233	Blue (RS)
VM206	Deep Blue
VM283	Bright Green
VM284	Monastral Green
VM325	Green
VM381	Extender Base

Available in 5Kg and 1Kg containers

Four Colour Process

VM004	Process Black
VM052	Process Yellow
VM135	Process Magenta
VM215	Process Cyan
VM396	Process Extender Base

Available in 5 kg containers.

Metallics

VM461	Rich Pale Gold
VM462	Silver

Available in 5Kg and 1Kg containers

Thinners/Reducers

ZVC557HF	Standard Thinner
ZV558	Retarder

Available in 5Kg containers.

Fluorescents

IcoPrint Fluorescent VF screen inks are recommended when a fluorescent ink is required for use in conjunction with Matt VM. (See Product Information Sheet, 'IcoPrint Fluorescent VF').**

Special Matches

Colours can be supplied against prints, wet ink samples or to PANTONE references, British Standard, 'HKS' or 'Munsell' numbers. A sample of the substrate to be printed with the number and type of mesh to be used as well as other relevant data should be attached to orders. Minimum quantity 5 kg.

Safety and Handling

IcoPrint Matt VM:

- Is formulated free from lead and other heavy metals and is tested to comply with the EN71-3:2013 Toy Safety Standard.
- Formulated to be non-flammable and meets non-DG transport and storage regulations

Comprehensive information on the safety and handling of IcoPrint Matt VM screen inks and solvents is given in the appropriate ICONINKS Safety Data Sheet, available upon request.

Environmental Information

IcoPrint Matt VM:

- 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 our 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.

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