

IcoPrint Gloss VG

Long Life flexible PVC inks for most plastics

Issue No. 006/2015

IcoPrint Gloss VG is a fast drying, gloss inks system, suitable for printing onto many flexible and rigid plastics, including PVC, ABS, Acrylics, and many others.

The product is highly flexible and suitable for Vacuum Forming applications.

IcoPrint Gloss VG has recently been improved to reduce its flammability rating

It is now a Non-Flammable product which does not need to be transported or stored under DG compliant conditions.

Product Resistance

IcoPrint Gloss inks are resistant to a wide variety of solvents including petrol and alcohol.

If extremely high resistance to petrol is required, overprinting with VG401 resistant Varnish is recommended. VG401 varnish should not be used for prolonged outdoor exposure in excess of 2 years.

VG401 Varnish is resistant to a wide variety of products which include alcohol, petrol, brake fluid, battery acid and detergent solutions. It offers effective protection against white spirit, Shellsol A, Methanol, Butanol, Ethyl Cellosolve, Butyl Cellosolve and many other solvents

If a higher level of outdoor durability greater than this is required, PY433 Long Life Varnish is recommended.

The IcoPrint Gloss ink system is also resistant to battery acids.

External Exposure Durability

Standard IcoPrint Gloss Colours will withstand exposure for up to two years in a temperate climate for up to 2 years, if printed onto a suitable 2 year SAPVC from 3M, Avery, or similar.

VG064, VG114 and VG164 will only withstand around 1 year of external durability, and we recommend VG841, VG802 and VG864, respectively, to be used, if longer than 1 year is required for exposure in an external environment.

In Shop Window displays and other internal applications, UV degradation will be minimal, and products will exhibit long life.

For long life exposure in an external environment, we recommend using the VG802, VG821, VG841, VG843 and VG864 colours in conjunction with VG433 varnish to ensure up to 7 years of product durability.

Please discuss any long life requirements you have with our technical or customer services centre for advice on how to achieve the longest print lifetimes possible.

We can also offer product exposure guarantees when needed, but formulations have to be checked by us, and written approval given, before printing.

Please discuss with your local technical or customer services team.

Product Tape Acceptance Properties

IcoPrint Gloss has excellent acceptance of Application and Pre-space tapes. Any colours with are overprinted with PY433 Long Life Varnish or VG401 Chemical Resistance Varnish are also suitable for use tapes.

Please fully test tape you intend to use before commencing a production run, to ensure it meets your requirements.

Main Characteristics

Properties

- High Gloss System, excellent flexibility
- Chemical resistance including petrol and alcohols
- Excellent external resistance:
 - 2 year and 7 year durability versions available
- Suitable for use with application and space tapes
- Can be used to print double sided stickers
- Long Life Varnish and Chemical Resistance Varnishes available
- Vacuum Formable inks
- Can be spray painted using spray equipment, or brushed on.
- Full Pantone Matching range, with metallics, and transparent colours.

Drying

Ink film can be dried at 55-65C in a jet drier for 15-20seconds
Air Drying achievable in ambient conditions after 10-15 minutes.

Thinning

Fast thinner for high speed printing: ZV556 - use 10-20%
Standard thinner: ZV557 - use 10-15%
Slow thinner for hot working conditions: ZV558 - use 10-30%
For VG401 Varnish, use 20-25% ZV557.

Wash-up

Wash up with **ZTC639 IcoPrep Thinner**

Mesh

Monofilament 77-120 mesh, depending on print needs.

Stencil Type

Most direct stencil materials with solvent resistance are suitable.

Coverage & Mesh No.

Up to 80M², when printing through a 120:34 mesh.

Recommended substrates

Plastics; PVC, ABS, acrylics, coated polyester, CAB, 'Hi-S Cal', 'Scotchcal', cellulose acetate.

Colour Range

PANTONE® 1000 Matching Formulae available using the IcoPrint Gloss VG formulation database.

Please request a pdf file from your local customer services contact.

IMPORTANT: Stir well before every use. Users should satisfy themselves that IcoPrint Gloss VG is compatible with specific textiles and resistance properties are acceptable before commencing production runs.

*PANTONE® is the property of Pantone, Inc

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Vacuum Forming use

IcoPrint Gloss VG inks enable easy deep draw vacuum forming, without exhibiting any mould staining, onto PVC, ABS, Cellulose Acetate, CAB & Acrylics

Colour Range - Standard System

IcoPrint Gloss VG Colours

VG001 Black
 VG021 White
 VG025 Opaque White
 VG030 Tinting White
 VG064 Yellow (Green Shade)
 VG066 Yellow (Red Shade)
 VG114 Orange
 VG191 Red (Yellow Shade)
 VG192 Scarlet
 VG164 Red (Blue Shade)
 VG165 Magenta
 VG127 Violet
 VG203 Mid Blue
 VG230 Blue
 VG205 Monastral Blue
 VG236 Reflex Blue
 VG206 Deep Blue
 VG283 Bright Green
 VG325 Green
 VG284 Monastral Green
 VG461 Gold
 VG462 Silver

All product are available in 5KG and 1KG containers

Varnishes

VG383 Mixing Clear
 VG401 Chemical Resistance Varnish
 VG433 Long Life Overprint Varnish
 Available in 5KG containers

Transparent Colours

PY052 Trichromatic Yellow
 PY135 Trichromatic Magenta
 PY215 Trichromatic Cyan

Thinners/Reducers

ZV556 Fast Thinner
 ZV557 Standard Thinner
 ZV558 Slow Thinner / Retarder
 Available in 5LTR containers.

Colour Range - Extra Lightfast System

IcoPrint Gloss VGEL Colours

VG802 Orange
 VG821 Red (Yellow Shade)
 VG841 Yellow (Green shade)
 VG843 Yellow (Red Shade)
 VG864 Red (Blue Shade)

Safety and Handling

IcoPrint Gloss VG:

- Is formulated free from lead and other heavy metals and is tested to comply to the EN71-3: 1995 Toy Safety Standard.
- All products should be stored at moderate temperatures, between 5°C and 30°C. Storage outside of these temperatures may lead to deterioration in the performance of the product.

Comprehensive information on the safety and handling of **IcoPrint Gloss VG** screen inks and solvents is given in the appropriate Iconinks Safety Data Sheet, available upon request.

Environmental Information

IcoPrint Gloss VG:

- 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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