



Product Information

UvXtra VB

Trichromatic Screen Ink

UvXtra VB is a 100% UV trichromatic screen ink designed for printing short term indoor display POP items onto paper, board, PVC, polypropylene & polystyrene.

Product Properties

- Adhesion to – paper, board, PVC, polypropylene and some polystyrene
- Satin/high satin finish
- Suitable for flatbed, cylinder and multicolour machines
- Excellent print definition
- Press ready formulation for large format printers
- Good finishing properties – cutting, creasing, folding

General Information

UvXtra inks should be stirred thoroughly before each use. Always test application fully before beginning production run, as there is often considerable variance in substrates from different manufacturers. See also section on 'Post Curing'.

Standard Colour Range

VB215	Trichromatic Cyan
VB052	Trichromatic Yellow
VB135	Trichromatic Magenta
VB004	Trichromatic Black
VB396	Trichromatic Extender Base

Available in 5kg containers

Additives

ZE637	Standard Thinner
ZE808	Gel Additive

Available in 5ltr containers

ZE824	Flash Cure Additive
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Available in 1ltr containers

Pre-Production Tests

Plastics:

Certain plastics may be impregnated with lubricants, that, like plasticiser migration, may impair adhesion even after a considerable time period after printing. This can usually be overcome by wiping the surface with a white spirit soaked cloth and drying off the solvent before printing.

Surface adhesive left from protective papers on rigid PVC sheets should be thoroughly removed in line with supplier's instructions. Other plastics can become brittle when printed, possibly to the point of shattering, often after several weeks. It is therefore essential to check compatibility between ink and plastic to guard against this.

Weathering

UvXtra VB inks are designed for internal POP applications. Testing for resistance to weathering in an Atlas xenon bulb weatherometer suggests that UvXtra VB inks will provide a limited outdoor life of 12 months when printed full strength on an exterior grade self-adhesive vinyl and exposed in zone 1 as defined on the Sericol 'Weathering' Product Information Sheet available at www.fujifilmsericol.com

Main Characteristics

Finish

Satin/high satin

Mesh

No. 140.34 PW - 180.31 PW

No. 150.34 PW is recommended for most print applications.

Thinning

Up to 5% ZE637

Up to 3% ZE824 Flash Cure Additive

Up to 5% ZE808 Gel Additive

Wash-up

Screen Wash Universal. Do not wash-up with any UV thinners.

Serisolve AM, SW, or AQ(+) are recommended for automatic screen cleaning machines.

Stencil Recommendation

Contact exposure: Dirasol Zenith, Dirasol 916, Dirasol 917, Dirasol Supercoat, Indirect or Capillary films.

Direct projection: Dirasol SuperPro, Dirasol S5, Dirasol S10

Direct Light Exposure: Dirasol DLE

Coverage

No. 150.34 PW mesh

Trichromatic inks up to 90m² kg (100m² ltr)

Curing

UvXtra VB is not recommended for flash curing equipment.

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

Storage

Containers should be tightly closed after use and thinners/reducers should not be stored near heat sources or peroxides. For maximum shelf life, store between 10°C and 25°C. When stored in such conditions UvXtra VB inks have a shelf-life of approximately 12 months from date of manufacture.

Post Curing

The chemical reactions involved in curing UV inks are not totally completed in the curing unit itself. While up to 90% of the chemical bonds needed to give adhesion etc, are completed, there is a post cure period when chemical bonds continue to be made.

Until recently it was believed that post cure was completed within 24 hours. Study has shown that although much of the post cure activity does take place within 24 hours it is now thought the total post cure period can last for a few weeks.

This is important to recognise as the UV cure process, and post curing, can cause shrinkage of the ink film, that puts stress on the material. In the case of self-adhesive PVC the stress manifests itself as cracking or shattering (embrittlement) of the substrate. It is therefore important to be cautious if your results immediately after curing are borderline for embrittlement as the additional post cure stress may cause more serious problems later on.

Polypropylene

UvXtra VB has been developed for use on commonly used sheet and fluted polypropylene materials. Polypropylene is corona discharge treated during manufacture and the efficiency of this treatment decreases with age. It is recommended to always use fresh stock. Any contamination of the surface (e.g. finger marks) will impair adhesion. UvXtra VB is not recommended for printing on Polypropylene for outdoor applications where water resistance is required. For more durable outdoor life requirements Multidyne LY is recommended.

FUJIFILM Sericol UK Limited:

- Has certification to the International Environmental Standard, ISO 14001
- Is committed to minimising the risk to users of our products, and also to minimising the impact of our activities on the environment, from formulation through to production and supply.
- Research & development team, work to an in house Health, Safety and Environmental policy, termed 'Design for Health, Safety and Environment', with the aim of proactively developing products with the least impact on health, safety and the environment.
- Regularly review and monitor our impacts and activities, setting objectives and targets as part of a continual improvement process.
- Is committed to reducing waste through better use of raw materials, energy, water, re-use and recycling.

Safety and Handling

UvXtra VB Inks:

- Have a flashpoint greater than 55°C and are therefore not classified as 'dangerous substance' under the Dangerous Substances and Explosive Atmospheres Regulations (DSEAR).
- For optimum shelf life, 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 UvXtra VB inks, solvents and associated products is given in the appropriate Safety Data Sheets.

Environmental Information

UvXtra VB Inks:

- Do not contain ozone depleting chemicals as described in the Montreal Convention.
- Are formulated free from aromatic hydrocarbons.
- Are free of any volatile solvent and can therefore be considered to have less impact on the environment, when compared with solvent-based products.

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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FUJIFILM

FUJIFILM SERICOL UK LIMITED
Pysons Road Broadstairs Kent CT10 2LE United Kingdom
Tel: (01843) 866668 Fax: (01843) 872184



UK Sales Tel: (01992) 782619 Fax: (01992) 782602
Email: uksales@fujifilmsericol.com

Customer Service Centres Tel: 0845 084 89 89

Export Sales
Pysons Road Broadstairs Kent CT10 2LE United Kingdom
Tel: +44 (0)1843 866668 Fax: +44 (0)1843 872122
Email: exportsales@fujifilmsericol.com

www.fujifilmsericol.com