

UVivid Screen CN UV Curing Screen Printing Inks

PRODUCT INFORMATION

UVivid Screen CN is a high gloss UV ink system specifically designed for flat screen, reel-to-reel label printing.

Print Characteristics

UVivid Screen CN UV inks offer superb printing results over a wide range of applications, conditions and substrates. UVivid Screen CN inks exhibit excellent flow characteristics while retaining a structure that optimises on-screen performance. Intercoat adhesion and foil blocking properties are good.

Curing

Adhesion is normally attained immediately upon curing; however maximum adhesion, chemical and mar resistance will be obtained up to 24 hours after initial curing.

Pre-Production Test

UVivid Screen CN is formulated to adhere to most grades of top coated or corona treated filmic materials with surface tension levels of 38 dyne/cm or higher. However, it is strongly recommended that all substrates and blocking foils are tested before use on a commercial run. Supposedly similar substrates can vary between manufacturers, and between batches from the same manufacturer. Certain plastics may be impregnated with lubricants that, like plasticiser migration, may impair adhesion and block resistance. It is also recommended to thoroughly test for compatibility when overprinted, as ribbons, toners and pigments used by overprint technologies can vary from batch to batch.

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

Chemical and Abrasion Resistance

UVivid Screen CN has excellent abrasion resistance and is resistant to most common chemicals. When printed under recommended conditions onto suitable substrates UVivid Screen RN may be expected to pass pasteurisation tests. End users must satisfy themselves of the suitability of this product for use on labels intended for pasteurisation before embarking on any production run.

UVivid Screen CN Tactile Varnish

UVivid Screen CN622 Tactile Varnish is a high build product designed for flat-bed screen printing. CN622 offers a combination of good flexibility with good detail reproduction when used with a high build stencil system. UVivid Screen CN622 can be used for printing Braille and tactile images.

Main Characteristics

Key benefits of UVivid Screen CN include:

- High colour density.
- Optimised rheology for excellent print definition.
- Adhesion to a wide range of synthetic substrates, including top coated PE & PP, PVC, PET, papers and metallised foils.
- Can be intermixed with UVivid Rotary Screen RN.
- Dedicated PANTONE®* formulation matching system.

Substrates

Most grades of supported and unsupported synthetic label stock including PE, PP, PVC, TC-PE, PP, PS and PET. Most commonly available papers, thermal papers and some metallised foils.

Treatment Level

38-44 dynes/cm. Corona treatment may also improve adhesion and lay of the ink.

Finish

Gloss

Mesh

Monofilament Nos. 120 to 165 threads per cm.
CN622: high build screen.

Stencil Type

Most direct stencil materials are suitable.
Recommended: Dirasol 916

Cure

160w/cm (400w/inch) bulb 100% power.

Wash-up

Wash up with ZT639 Screen Wash Universal.

Colour Range

PANTONE® 1000 Matching Formulae available.

*PANTONE® is the property of Pantone, Inc.

UVivid Screen CN Colour Range

UVivid Screen CN inks are available in 12 base colours plus Black, White and Mixing Base.

Colour	Product Code
Black	CN001
Dense Black	CN009
Mixing White	CN030
Opaque White	CN025
Yellow	CN045
Orange	CN103
Warm Red	CN199
Red 032	CN097
Rubine	CN163
Rhodamine	CN125
Purple	CN237
Violet	CN132
Blue 072	CN254
Reflex Blue	CN236
Process Blue	CN240
Green	CN320
Mixing Base	CN381
Tactile Varnish	CN622

Available in 5 kg containers

Additives

ZE637 Thinner

ZE813 Fast Thinner

Available in 5ltr containers

Storage

Containers should be tightly closed immediately after use. At the end of long print runs, surplus ink from the screen should be disposed of. UVivid Screen CN inks are outside the Petroleum (Flammable Liquids) Order 1971 and Liquefied Gasses Regulations 1972.

UVivid Screen CN should not be stored in direct sunlight or near warm pipes and should be kept away from peroxides. In the interest of maximum shelf-life storage temperatures should be between 10°C and 25°C.

Refer to Material Safety Data Sheet (MSDS) for materials and conditions to be avoided

When stored in a cool environment the inks are expected to have a shelf-life of approximately 12 months from the date of manufacture.

Fujifilm Speciality Ink Systems 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

UVivid Screen CN:

- Is formulated to be free from any chemicals toxic to health, carcinogenic, mutagenic or reprotoxic according to Directive 67/548/EC.
- Has a flashpoint greater than 55°C and is therefore not classified as a "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 UVivid Screen CN inks, solvents and associated products is given in the appropriate Safety Data Sheets.

Environmental Information UVivid Screen CN:

- Does not contain ozone depleting chemicals as described in the Montreal Convention.
- Is formulated free from aromatic hydrocarbons.
- Is 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 Fujifilm Speciality Ink Systems Limited and its associated companies, 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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