

## UVivid Screen RN UV Curing Screen Printing Inks

### PRODUCT INFORMATION

**UVivid Rotary Screen RN is a high gloss UV ink system specifically designed for rotary screen label printing.**

#### Print Characteristics

UVivid Rotary Screen RN inks produce outstanding printing results over a wide range of applications, conditions and substrates. UVivid Rotary Screen RN inks have reliable intercoat adhesion and foil blocking properties with excellent flow and gloss characteristics over a wide range of press speeds.

#### 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 Rotary Screen RN 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 Rotary Screen RN has excellent abrasion resistance and is resistant to most common chemicals. When printed under recommended conditions onto suitable substrates UVivid Rotary 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 Rotary Screen Combination White RN034

UVivid Rotary Screen Combination White RN034 is silicone free and good housekeeping is needed to avoid contamination in use. See product information sheet entitled UVivid Rotary Screen RN034 for further details.

#### UVivid Rotary Screen Tactile Varnish RN622

UVivid Rotary Screen RN622 Tactile Varnish is a high build product designed for rotary screen printing. RN622 offers a combination of good flexibility with good detail reproduction when used with a high build rotary screen. UVivid Rotary Screen RN622 can be used for printing Braille and tactile images.

### Main Characteristics

#### Key benefits of UVivid Rotary Screen RN include:

- Strong, bright colours.
- Fast cure for high production output.
- Good pasteurisation resistance.
- Adhesion to a wide range of synthetic substrates, including top coated PE & PP, PVC, PET, PS and metallised foils.
- Reliable intercoat adhesion and foil blocking properties with excellent flow and gloss characteristics over a wide range of press speeds.
- Dedicated PANTONE® formulation matching system.

#### Substrates

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

#### Treatment Level

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

#### Finish

Gloss

#### Screen

Most rotary screens used for label printing including Stork RSI and Gallus Screeny.

#### Cure

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

#### Wash-up

Wash up with ZT639 Screen Wash Universal.

#### Colour Range

PANTONE®\* 1000 Matching Formulae available.

## UVivid Rotary Screen RN Colour Range

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

Colour	Product Code
Black	RN001
Dense Black	RN009
Opaque White	RN752
Mixing White	RN030
Combination White	RN034
Yellow	RN045
Red 032	RN097
Orange	RN103
Rhodamine	RN125
Violet	RN132
Rubine	RN163
Warm Red	RN199
Reflex Blue	RN236
Purple	RN237
Process Blue	RN240
Blue 072	RN254
Green	RN320
Mixing Base	RN381
Tactile Varnish	RN622

Available in 5 kg containers

### Additives

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 Rotary Screen RN inks are outside the Petroleum (Flammable Liquids) Order 1971 and Liquefied Gasses Regulations 1972. UVivid Rotary Screen RN 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.

## 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 Rotary Screen RN:

- 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 Rotary Screen RN inks, solvents and associated products is given in the appropriate Safety Data Sheets.

## Environmental Information

UVivid Rotary Screen RN:

- 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.*

# FUJIFILM

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