

UVivid Rotary RN034 UV Curing Combination Rotary Screen White

PRODUCT INFORMATION

UVivid Rotary RN034 Combination Screen White is a rotary screen base coat white for combination label printing and is designed to be overprinted with UVivid Flexo JD inks.

Printing Recommendations

The potential for silicone contamination is a major concern with this ink system, so good housekeeping is important to ensure consistent performance. To ensure that optimum print results are obtained it is important to follow the guidelines listed below (see also separate Hints and Tips information sheet on cleaning recommendations):

- Ensure that the inks are stored between 10°C and 25°C (see section on storage).
- Stir well before use.
- Use clean screens; do not replace a standard screen white without thorough cleaning.
- Reclaimed screens, squeegee blades and holders must be cleaned thoroughly to minimise the risk of silicone contamination. Rinse screens with fresh cleaning solvent after automatic cleaning program to wash off any residual silicone from the automatic wash out solution.
- Ideally run UVivid Rotary Screen RN034 Combination White without pumping to reduce risk of silicone contamination. Use a new syringe that does not have an O-ring that is lubricated with silicone based materials. To be sure rinse the syringe with solvent before use.
- If it is unrealistic to run without a pump, ensure that the full system is thoroughly cleaned and flushed with UVivid Rotary RN034 Combination White before printing.
- Flow of UVivid Rotary Screen RN034 improves as press speed is increased. Optimum speed is 50-60m/min.
- Ensure the level of ink remains high in the screen to reduce the risk of air entrapment, that could potentially cause ink flow problems and pin-holing.
- Ideally, run with the squeegee blade below centre level to increase the printed ink film weight. The only exception to this is on Gallus R160/R200 presses, where on the right hand bank of units, the blade should be lifted to increase film weight.

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 RN034 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

Main Characteristics

Key benefits of UVivid Rotary Screen RN034 include:

- Specially formulated to offer additive free overprinting with UVivid Flexo JD inks.
- Excellent opacity.

Substrates

Most grades of supported and unsupported synthetic label stock including PE, PP, PVC, TC-PE, PP, 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

Stork: RSI 305 13%
Gallus: Screeny KM/KS

Cure

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

Wash-up

Wash up with ZT639 Screen Wash Universal

Colour Range

Combination White

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

Available in 5 kg containers

Additives

Additives should not be used with UVivid Rotary Screen RN034.

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 RN034 Combination White is outside the Petroleum (Flammable Liquids) Order 1971 and Liquefied Gases Regulations 1972. RN034 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 RN034 Combination White:

- 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 RN034 Combination White is given in the appropriate Safety Data Sheets.

Environmental Information

UVivid Rotary RN034 Combination White:

- 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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