

UVivid Varnishes RV UV Curing Varnishes & Coatings

PRODUCT INFORMATION

Fujifilm produce a range of UV curing varnishes and coatings for narrow web label printing. Products are available with a range of finishes and other properties.

Pre-Production Testing

UVivid RV varnishes are 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.

UVivid RVA07 Primer Coat

UVivid RVA07 Primer Coat is a flexo printable product that is designed to improve adhesion of UVivid Flexo JD colours when printed onto difficult substrates including metallised foils and PET. UVivid RVA07 must not be thinned and should not be mixed with any other product including inks or additives. Printers are strongly advised to assess the suitability of this product before starting a production run (see section entitled Pre-Production Testing)

UVivid RV Range

Code	Description	Suitable for Flexo?	Suitable for Screen?	Finish	Overprintable?	Foil Blockable?
RV391	General Purpose Gloss Varnish	✓	✓	High gloss	✗	✓*
RVA01	Matt Blockable Varnish	✓	✗	Matt	✓	✓
RVA05	Optically Bright Gloss Varnish	✓	✓	High gloss	✗	✓*
RVA07	UV Flexo Primer	✓	✗	Gloss	✓	✓
RVA11	Gloss Varnish (Non-yellowing)	✓	✓	Gloss	✗	✗
RVA14	Gloss Blockable Varnish	✓	✗	Gloss	✓	✓
RVA15	Laminating Adhesive	✓	✗	Gloss	n/a	n/a
RVA16	Cold Foil Adhesive	✓	✗	Gloss	n/a	✓
RVA17	High Slip Gloss Varnish	✓	✗	High gloss	✗	✗
RVA18	General Purpose Matt Varnish	✓	✗	Matt	✗	✗
RVA21	Gloss Blockable Varnish bzp-free	✓	✗	Gloss	✓	✓
UV400	UV Matt Varnish (Plastics)	✗	✓	Ultra Matt	✗	✗
UV405	UV Matt Varnish (Paper)	✗	✓	Ultra Matt	✗	✗

Available in 5 kg containers

*Dependant on film weight.

Main Characteristics

Properties

UVivid RV varnishes are a range of varnishes and coatings for narrow web label printing

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. RVA07: primer for metallised substrates and PET.

Treatment Level

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

Plates and Tape (Flexo Products)

Most plates and tint rollers that are compatible with UV inks.

Doctor Blades (Flexo Products)

Reverse angle and chambered doctor blades. It is recommended that a doctor blade is always used.

Anilox (Flexo Products)

3-10 cm³/m² depending on finish and properties required

Screen (Screen Products)

Gallus: Screeny KS/KM
Stork: RSI 305 13%/17%

Cure

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

Wash-up

Plates, rollers, ancillaries: General Cleaner DFGC1
Deep cleaning of anilox: Deep Clean DFCL
Automatic solvent wash out: Autowash Cleaner DFAUT

Additives

ZE813 Fast Thinner – available in 5 ltr containers

ZE824 Flash Cure Thinner – available in 1kg containers

Storage

Containers should be tightly closed immediately after use. At the end of long print runs surplus varnish from the ink duct should be disposed of. Uncontaminated press returns should be stored under the same conditions as the unopened ink containers. UVivid RV Varnishes 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. Varnishes and additives should not be stored in direct sunlight or extreme temperatures. Refer to Material Safety Data Sheet (MSDS) for materials and conditions to be avoided.

Shelf Life

When stored unopened in a cool environment UVivid RV Varnishes are expected to have a shelf-life of 12 months from the original date of manufacture, with the exception of RV391, RVA14 and RVA15 which have 18 months shelf-life.

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 RV Varnishes:

- Are formulated to be free from any chemicals toxic to health, carcinogenic, mutagenic or reprotoxic according to Directive 67/548/EC.
- 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 UVivid RV Varnishes is given in the appropriate Safety Data Sheets.

Environmental Information

UVivid RV Varnishes:

- 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 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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