UV5725 Release FCM

DESCRIPTION

Food packaging compliant (FPC) UV flexo Gloss Peel & Read Release Varnish suitable for non-direct food contact packaging applications as well as general label printing.

KEY FEATURES

- Excellent adhesion properties
- Excellent printability
- Excellent release
- Formulated for non-direct food contact packaging applications

SUBSTRATES

Suitable for a wide range of papers, films and label stocks including:

- Coated PE and PP
- Coated paper and board

The suitability of uncoated synthetic substrates such as PP should be tested before printing. The surface energy should be measured to a minimum of 38 dyne/cm or above. Consider the use of Corona treatment should you encounter any wetting or adhesion issues to your selected material

ADDITIONAL ADVICE

- Ensure that the varnish is fully homogenized (shake the container/stir on every use as well as stirring the tray/chamber/reservoir when replenishing); following stoppages of more than 15mins, re-stir the varnish in the tray/chamber before running
- Fully maintain UV curing systems (check lamp age is within the manufacturers recommended life as well as checking the condition and cleanliness of the UV Reflectors). Ensure that the UV lamps are at 100% power on the P&R varnish unit regardless of press speed. Fully cured varnish will also eliminate silicon contamination, which may transfer onto intermediate path rollers potentially causing issues such as failure to any booklet hinges
- Avoid cold conditions for both the varnish and substrate as cold temperatures may affect flow/wet out and UV cure; ideally use at 20°c

minimum. Turn chilled impression rollers off on the Peel and reseal Unit, or set at a minimum 25°c

- Filmic substrates should have a minimum dyne level of 38 dyne/cm
- For Absorbent substrates such as Paper and Board, **a pre-primer coat is required.** Depending on the absorbency of the substrate, primer film weights of 6-20 cm^3/m^2 (3.8-12.9 BCM) volume are needed. We would recommend the use of PT121-002-1 PureTone Extender or FPC500-1 Primer. NOTE; Blockable varnishes are not suitable to use as a primer coat
- If printing data on the adhesive, UV lamps should be set at the minimum required to cure the ink. Excessive UV exposure can adversely affect some label adhesives leading to failure (reduced tack & potential delamination)
- A fully cured high gloss, smooth finish with no dive in, orange peeling or pin holing is the desired finished result, this will give good release and reseal, and stability over time

FULL TESTING IS ESSENTIAL PRIOR TO COMMITTING TO PRODUCTION

ANILOX RECOMMEDATIONS

80-160 l/cm (200-400 lpi)
Minimum Volume 12 cm^3/m^2 (BCM 7.8)

UV CURING

MINIMUM LAMP POWER – 140 W/cm

- Press speeds, Lamp Hours and cleanliness of the UV Reflectors will have a bearing on overall UV Dosage
- Major suppliers of UV Curing Units recommend a maximum of 1000 Hours for UV Lamps and 5000 Hours for UV Reflectors
- Fully cured UV flexo varnishes will obtain resistance properties 24 hours after printing
- **IMPORTANT** For Food Packaging Applications (FPC) the risk of migration is increased if the varnish is not fully cured

Clean equipment immediately after use to avoid any ambient UV exposure to critical components such as Anilox Rollers

WASH UP

RLA350 UV Wash
SOL8003 PULSOLV Combination Flexo Wash
SOL8051 PULSOLV UV Flexo Wash EPDM

ADDITIVES	The use of press side Additives to press ready products may have a negative effect on cure performance, overall flexibility, adhesion, thermal overprinting and migration properties for Food Packaging applications.
RESPONSIBILITY	Please refer to the appropriate Regulatory Information Sheet (RIS) to confirm the compliance of this product. It is the responsibility of the seller of the finished product to ensure all members of the packaging chain comply with recommended guidelines and regulatory requirements.
STORAGE & HANDLING	Containers should be tightly closed immediately after use. All products, including uncontaminated press returns and unopened containers, should be stored at temperatures between 5°C and 25°C. Shelf life is 12 months from date of manufacture (as indicated on the label).
HEALTH & SAFETY	Please refer to relevant SDS for information on labelling classifications, waste product and container disposal, and personal protection measures.