

## Technical Datasheet

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### TerraGloss® UV Gloss Varnish VP-LS-113 VK

#### Product Description

UV based gloss varnish with a high reactivity for LED applications with LED-spotlights (wavelength 385 nm to 395 nm).

Place under the exclusion of strong and direct artificial light or daylight.

Suitable for foils.

#### Performance during further processing

- Hot foil stamping: yes
- Glueability: yes

#### Material characteristics

- Delivery viscosity: 95 sec. (20°C, DIN 4 mm cup)
- Solids: 100 %
- Specific weight: 1,13 g/ml

#### Packaging unit

- 25 kg canister black
- 5 kg canister black
- 10 kg UN canister PE black

#### Special properties

- low yellowing
- very good flow out
- low odour after a complete curing

#### Field of application

Application

- Inline / Offline  
sheet feed offset, coating unit (chamber doctor blade unit) on top of UV LED printing inks.

Substrates

- glossy coated paper and board
- foil laminated materials
- aluminium foil laminated substrates
- rearside PE coated board
- OPP foil

Printing products

- folding box, non food
- labels

#### Processing recommendations

- The characteristics profile of the coating is given for the case of complete curing. The curing depends on the efficiency of the lamps, the press-speed, the general conditions and integrated optics of the LED-unit and the distance from this unit to the substrate.
- Since the LED wavelength from 385 nm to 395 nm is close to the visible light spectrum, the liquid coating must be protected from daylight.
- Stir up well before use!  
Mechanical stirring is recommended.
- Recommended film weight:  
4 - 6 g/m<sup>2</sup>/wet
- The printing inks should be suitable for coating. The resistance against alkali, alcohol and solvents should be given in accordance to DIN ISO 2836, former DIN 16524, to exclude any colour change.
- Glue flaps should be uncoated.
- Please use suitable screen rollers.
- A strong absorption on absorbent surfaces can cause an insufficient curing of the UV varnish, sensory problems, mechanical influence as well as rub resistance problems and poor slip properties.
- Do not pollute the varnish with washing water or other varnishes.
- The total structure of substrate/printing ink/varnish must be cured sufficiently before processing and should be checked during the process.

#### Cleaning

- Please clean machine and tools immediately with alcohol. Dried film clean up with TERRAGLOSS CLEAN Cleaning Agent G 13/160.
- Tubes should be free of water, varnish and cleaning agent, otherwise the UV varnish can thicken.

#### Storage

- Shelf-life from date of dispatch 6 months
- Applies to closed original containers at 5°C up to 30°C.
- The increase of viscosity is possible if the coating is stored wrong or for a longer time!
- Place under the exclusion of light.
- Keep from freezing, heat and solar radiation.

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- Do not pollute the varnish with washing water, cleaning agent or other varnishes/adhesives.

#### Safety instructions

- If the varnish comes into contact with eyes please remove contact lenses and keep the eyelids open. Clean with plenty of water (10 - 15 min).
- Clean and rinse immediately with water and soap if the varnish comes into contact with the skin. Do not use solvents or dilutions. Contaminated clothing should be removed immediately.
- Please pay attention to the information given in the material safety data sheet.

#### Environmental recommendation

- Please pay attention to the information given in the material safety data sheet.
- Do not give the varnish into lakes and rivers or the sewage system.
- Reminders must be disposed professionally in compliance with valid instructions.

#### Please be advised

- All information provided on this product (in this sheet or elsewhere) are made to the best of our knowledge.
- This data sheet does not claim to be complete.
- All information are technical quality descriptions, advisory and due to the wide range of materials, production conditions, operations and processes do not release from own tests and examinations in customer-specific circumstances.
- If an application is intended to be made under different conditions than those specified in this sheet, we only assume liability after having examined the respective different conditions.
- We reserve the right to change product characteristics because of technical progress, amendment of applicable law and mandatory production-related needs.