

Technical Datasheet

27.10.2022


TERRAGLOSS® UV Gloss Varnish G 38/518 NVK-100






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Product description

UV gloss coating with a high reactivity for LED-UV applications with LED-spotlights (wavelength 385 nm to 395 nm). The product provides a very good runability, a low yellowing as well as a high scuff resistance. Place under the exclusion of strong and direct artificial light or daylight.

Properties



Runability	
Reactivity	
Gloss	
Scuff resistance	
Surface smoothness	
Hot foil stamping	no
Glueability	no

Material characteristics

- Viscosity: 100 sec. (20°C, DIN 4 mm cup)

Special properties

- Low yellowing
- Very good flow out
- Less odor after a complete curing

Application (End Uses)

- Pressure sensitive (Other non-food)
- Commercials (Brochures)
- Folded boxes (Other non-food, Personal Care)
- Publications (Dust jackets)

Processes

- Sheet-fed offset, coating unit (chambered doctor blade system)
- Narrow Web
- Flexo printing, reel-to-reel

Substrate

- Coated board
- Coated paper
- PVC, PP, PE, PET foils etc.

Legislation assessment

- The direct or indirect contact to foodstuff is not admitted.

Processing recommendations

- LED: The characteristics profile of the coating is given for the case of complete curing. The curing depends on the efficiency of the lamps,
- Stir well before use!
Mechanical stirring is recommended.
- Do not pollute the varnish with washing water or other varnishes.
- On account of a number of substrate, a pretest, especially with regard to the adhesion, should be done.
- The varnish is suitable for the use of High Reactive Curing Technologies (e. g. LE UV, LEC UV, HUV, HR UV).
- The complete property profile of the coating film (with regard to rub resistance and slip

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- properties) is given after 24 hours in case of a complete curing.
- Glue flaps should be uncoated.
 - 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.
 - The total structure of substrate/printing ink/varnish must be cured sufficiently before processing and should be checked during the process.
 - 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.
 - 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.

Cleaning instructions

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

Storage instructions

- Shelf-life 6 months
- Applies to closed original containers at 5°C up to 30°C.
- Place under the exclusion of light.
- Keep from freezing, heat and solar radiation.
- Do not pollute the varnish with washing water, cleaning agent or other varnishes/adhesives.

Disclaimer

- All information provided on this product (in this sheet or elsewhere) are made to the best of our knowledge.
- All information are technical quality descriptions, advisory and due to the wide range of materials, production conditions, operations and processes they do not release from own tests and examinations under 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.

- This data sheet does not claim to be complete.
- We reserve the right to change product characteristics due to technical progress, amendment of applicable law and mandatory production-related needs.