

Technical Datasheet

23.09.2021

TERRAGLOSS UV Matt Varnish G 38/10 NVK-070


1 / 2





Product description

UV matt varnish with a high reactivity for LED-UV applications with LED-spotlights (wavelength 385 nm to 395 nm). The product shows a low yellowing as well as a very good flow out.

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

Properties



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

Material characteristics

- Viscosity: 70 sec. (20°C, DIN 4 mm cup)

Special properties

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

Application (End Uses)

- Pressure sensitive (Other non-food, Industrial, Household, Beverages, Pharma)
- Commercials (Photo books, Brochures)
- Folded boxes (Other non-food, Personal Care)
- Publications (Dust jackets)

Processes

- Narrow Web
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Substrate

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

Legislation assessment

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

Processing recommendations

- 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.
- 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.
- UV: The property profile of the coating film is given in case of a complete curing. The curing depends on the efficiency of lamps, life of UV lamps, machinery speed, general conditions of the UV unit (reflectors, etc.), temperature and the distance from the UV unit to the substrate. We recommend to clean regularly the reflectors and - if necessary - to change the lamps in case of a drop in lamp

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2 / 2

- efficiency.
- Do not pollute the varnish with washing water or other varnishes.
- 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.
- The varnish is suitable for the use of High Reactive Curing Technologies (e. g. LE UV, LEC UV, HUV, HR UV).
- Recommended film weight: 3 – 6 g/m²/wet

Cleaning instructions

- 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 instructions

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

Disclaimer

- 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 they do not release from own tests and examinations under customer-specific circumstances.
- All information provided on this product (in this sheet or elsewhere) are made to the best of our knowledge.
- We reserve the right to change product characteristics due to technical progress, amendment of applicable law and mandatory production-related needs.
- 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.