

## Technical Datasheet

23.09.2021

### TERRAGLOSS UV Gloss Varnish G 8/105 VK-060

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#### Product description

This UV gloss coating shows a high reactivity. The product is free of benzophenone and suitable for hot foil stamping. TTR functionality (wax and resin ribbons), min. UV dosage 40 mJ/cm<sup>2</sup> for proper curing needed (for optimal TTR functionality please don't overcure the varnish).

#### Processes

- Sheet-fed offset, coating unit (chambered doctor blade system)
- Coating unit (chambered doctor blade or roller system)
- Narrow Web

#### Properties

Runability	
Reactivity	
Gloss	
Scuff resistance	
Surface smoothness	
Hot foil stamping	yes
Glueability	yes

#### Substrate

- Coated board
- Coated paper
- Rearside PE coated board
- Aluminum foil laminated substrates
  
- PVC, PP, PE, PET foils etc.

#### Material characteristics

- Viscosity: 60 sec. (20°C, DIN 4 mm cup)

#### Special properties

- Suitability of foils must be checked
  
- Free of benzophenone
- Low yellowing
- Less odor after a complete curing

#### Legislation assessment

- The direct contact to foodstuff is not admitted. Using an absolute barrier the indirect contact is admitted. For information about the food legislation assessment of this product (e. g. demands on the Nestlé "Guidance Note on Packaging Inks" and the Swiss Ordinance (SR 817.023.21 - ordinance of the Swiss Confederation on materials & articles in contact with food)) we ask you to contact our department for quality, environment and product safety. T: +49 (0) 5132 5009-140 mail to: QUM.ACTEGA.Terra@altana.com

#### Application (End Uses)

- Pressure sensitive (Other non-food)
  
- Folded boxes (Other non-food, Personal Care, Pharma)

#### Processing recommendations

- 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

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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 efficiency.

- 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.
- The total structure of substrate/printing ink/varnish must be cured sufficiently before processing and should be checked during the process.
- Glue flaps should be uncoated.
- 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.
- In case of an offline coating we recommend for the primer a drying time of minimum 24 hours, in case of metallic printing inks minimum 48 hours.
- Recommended film weight: 3 – 6 g/m<sup>2</sup>/wet

#### 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

- Place under the exclusion of light.
- Shelf-life 12 months
- Applies to closed original containers at 5°C up to 30°C.
- 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.
- 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.
- 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.
- We reserve the right to change product characteristics due to technical progress, amendment of applicable law and mandatory production-related needs.