

Technical Datasheet

TERRAGLOSS UV Special Varnish G 8/421 ToySafe








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1 / 2

Product description

UV gloss coating with release effect. The product has been ToySafe® certified. It is free of bisphenol A, heavy metals, benzophenone and plasticisers. It is compliant with applicable norms, guidelines and ordinances for toy safety. The coating shows a low tendency to penetration, it is free of benzophenone and suitable for the coating of playing cards.

Properties

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

Material characteristics

- Viscosity: 50 sec. (20°C, DIN 4 mm cup)

Special properties

- Overprint varnish with release effect
- Depending on substrate and job, release properties should be checked.
- Low tendency to penetration
- Less odor after a complete curing
- Low yellowing
- Suitable for the coating of plastic playing cards
- Free of benzophenone
- Very good flow out

Application (End Uses)

- Commercial (Playing cards)
- Folded boxes (Toys)

Processes

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

Substrate

- Coated paper
- Rearside PE coated board
- Foil laminated materials
- Coated board
- Aluminum foil laminated substrates

Legislation assessment

- In principal the product can be used as directed and with a complete drying/curing for the coating of toy packagings. For information about the regulatory assessment of this product (e. g. guideline Richtlinie 2009/48/EG, DIN EN 71) 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

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.
- The printing inks should be suitable for coating. The

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23.09.2021

2 / 2

resistance against alkali, alcohol and solvents should be given in accordance to DIN ISO 2836, former DIN 16524, to exclude any colour change.

- 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.
- The total structure of substrate/printing ink/varnish must be cured sufficiently before processing and should be checked during the process.
- Recommended film weight: 3 – 6 g/m²/wet
- Glue flaps should be uncoated.
- 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 efficiency.

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

- Keep from freezing, heat and

solar radiation.

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

Disclaimer

- 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.
- This data sheet does not claim to be complete.
- 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.