

Technical Datasheet

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TERRASCREEN UV Gloss Varnish G 22/603 VK

Product Description

UV based screen printing varnish with a wide field of application.

Properties during coating process

Reactivity



Properties in the cured condition

Gloss



Scuff resistance



Surface smoothness



Performance during further processing

- Hot foil stamping: yes
- Glueability: yes

Material characteristics

- Delivery viscosity: 80 sec. (20°C, DIN 4 mm cup)
- Solids: > 98 %
- Specific weight: 1,05 – 1,10 g/ml

Packaging unit

- 10 kg steel can
- 25 kg steel can
- Larger containers are available on request.

Special properties

- very good flow out
- suitability of foils must be checked

Field of application

Application

- Screen printing
- Curing: 2 x 80 W/cm at max. 25 m/min. speed
- Recommended mesh: 180 . . . 150 L/cm
- The fine adjustment for the choice of tissue must be chosen individually depending job and motive.

Substrates

- coated board

- coated paper
- rearside PE coated board

Printing products

- folding box, non food
- commercial prints, covers
- folding box, pharmaceuticals
- folding box, cosmetics
- displays

Food legislation classification

- An application on packaging materials in particular on food packaging materials have neither been tested nor approved by us. Accordingly we agree with the statements from our suppliers who advise not to use this varnish for food packagings. With that the direct as well as the indirect contact to foodstuff is not allowed.

Processing recommendations

- Stir up well before use!
Mechanical stirring is recommended.
- 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 total structure of substrate/printing ink/varnish must be cured sufficiently before processing and should be checked during the process.
- 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 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.

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Cleaning

- Please clean machine and tools immediately with the right screen cleaner or alcohol.

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.
- 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.
- Remainders 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.