

## Technical Datasheet

23.09.2021

### TERRAEFFEKT UV Opaque White G 7/914 VK-070

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#### Product description

This is an UV opaque white to enable a colourfast printability of the substrate which does not provide the desired degree of whiteness. It creates homogeneous white surfaces without pinholes. This product is low odour, easy to use and shows an excellent coverage as well as a good scratch resistance. It's suitable for absorbent and non absorbent surfaces such as transparent substrates, metallized substrates or wine labels.

Our UV opaque white can be applied in offset printing (UV coating unit), in flexo printing as well as in flat-bed or rotary screen printing. The product is hot foil stampable and writable.

#### Material characteristics

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

#### Special properties

- The opaque white contains titanium dioxide. This white pigment covers the surface optimally and the substrate gets a high white level.
- Very high coverage
- An overcoating with UV varnishes and water based coatings is possible.
- For absorbent and non absorbent surfaces
- Free of benzophenone
- Less odor after a complete curing
- Good printability, good adhesion
- Good flow out

#### Application (End Uses)

- Pressure sensitive (Industrial, Household, Personal Care)

#### Processes

- Narrow Web
- Flat-bed screen printing
- Rotary screen printing
- Sheet-fed offset, coating unit (chambered doctor blade or roller system)

#### Substrate

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

#### 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

#### Processing recommendations

- Stir well before use!  
Mechanical stirring is recommended.
- Recommended film weight: 2 – 5 g/m<sup>2</sup>/wet
- The printing inks should be suitable for coating. The

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

- The effect coatings should be stirred well before use.  
While running stir continuously with an adjusted slow stirrer.
- The complete property profile of the coating film is given in case of a complete drying.
- Curing: 160 - 220 W/cm wave length approx. 240 - 380 nm  
The curing of the UV varnish depends on the cleaning / maintenance status of the UV drying device, the production speed, the substrate and the printing motive.
- The total structure of substrate/printing ink/varnish must be cured sufficiently before processing and should be checked during the process.
- Due to shearing stresses the viscosity can be reduced.
- Do not pollute the varnish with washing water or other varnishes.
- Glue flaps should be uncoated.

#### Cleaning instructions

- Please clean machine and tools immediately with alcohol. Dried film clean up with TERRAGLOSS CLEAN Cleaning Agent G 13/160.

#### Storage instructions

- Shelf-life 9 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!
- Keep from freezing, heat and

solar radiation.

- Do not pollute the varnish with washing water, cleaning agent or other varnishes.
- After opening use as soon as possible.
- The storage can cause a separation.

#### 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.