

Technical Datasheet

13.05.2011
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TerraWet® Matt Coating G 9/72 matt FoodSafe

Product description

Water based matt coating with fast drying and very high wet block resistance.

Properties during coating process

| | |
|---------------------|-----------------------|
| Runability | ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ □ |
| Drying | ■ ■ ■ ■ ■ ■ ■ ■ ■ □ □ |
| Crackling tolerance | ■ ■ ■ ■ ■ ■ ■ ■ ■ □ □ |
| Foaming tolerance | ■ ■ ■ ■ ■ ■ ■ ■ ■ □ □ |
| Two-sided coating | ■ ■ ■ ■ ■ ■ ■ ■ ■ □ |

Properties in dry condition

| | |
|----------------------|-----------------------|
| Gloss | ■ ■ ■ □ □ □ □ □ □ □ |
| Scuff resistance | ■ ■ ■ ■ ■ ■ ■ ■ □ □ □ |
| Wet block resistance | ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ |

- Heat resistance: Up to 120°C
- Slip angle: 18° -22°

Performance during further processing

| | |
|-------------------|-----------------------|
| Counter glueing | ■ ■ ■ ■ ■ ■ ■ ■ □ □ □ |
| Hot foil stamping | ■ ■ ■ ■ ■ ■ ■ ■ □ □ □ |
| UV varnishing | ■ ■ ■ ■ ■ ■ ■ ■ □ □ □ |
| Foil lamination | ■ ■ ■ □ □ □ □ □ □ □ |

Material characteristics

- Delivery viscosity: 40 sec. and 60 sec. (20°C, DIN 4mm cup)
- Solids: 31 - 36%
- Specific weight: 1,07 g/ml

Packaging unit

- 1.000 kg container
- 125 kg drum
- 25 kg canister

Special properties

- low odour

Field of application

Application

- Sheet-fed offset, coating unit (chamber doctor blade or two-rollers)
- Drying: IR and hot air
- wet-in-wet

Substrates

- coated paper
- coated board
- rearside PE-coated board

Printing products

- folding box, food
- folding box, sweets
- displays
- labels
- commercial prints, two-sided

Food legislation classification

- The coating is characterised by low migration (global migration < 60 mg/kg (EU cube model)).
- The coating has been tested for food contact by an accredited testing laboratory and has been certified for the direct contact to dry and fatty foodstuffs. A corresponding certification is available on demand from our department for product safety.
- The coating correspond to the Swiss Ordinance (SR 817.023.21 - ordinance of the Swiss Confederation on materials & articles in contact with food).
- A final evaluation according to food law requirements is only possible on basis of a migration analysis that has been conducted on the completed product. The analysis if the packaging is suitable for the designated filling good including the possible interdependencies between both is incumbent on the responsibility of the one who brings the packaging into circulation.

Processing recommendations

- Recommended coating application: 3 - 4 g/m²/wet
- Stir before use
- We recommend to check the viscosity and to adjust it with water if necessary.
- Please use printing inks suitable for coating

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- Resistance against alkali, alcohol and solvents should be given according to DIN ISO 2836, formerly DIN 16524, in order to exclude a change of colour.
- There must be a suitability for waterbased coating if anti-set-off powder is used (do not use mineral powder).
- Using non-absorbent substrates and / or slowly absorbent printing inks, we recommend to plan for the corresponding drying times.
- We recommend to omit adhesive straps.
- Recommended pile temperature: not > 35°C
- In order to guarantee a fast and complete drying, we recommend a sufficient airing of the sheets.
- The full profile of characteristics of the coating film is available after complete drying.
- There must be a sufficient hardening of the overall system substrate-printing ink-coating before further processing which should be checked in the process.
- For the further processing of the sheets under mechanical load and / or the influence of humidity, a sufficient high basic consistency of the substrate is required.
- The coating is suitable for wrapping in foils XS and MS (no acrylic coated foil).

Cleaning

- Please clean machines and tools immediately with water. Dried coating residues can be removed with TerraWet Clean Cleaning Agent G 12/180.

Storage

- Protect from frost, heat and sun exposure
- Minimum shelf-life from date of dispatch 12 months
- Applies to closed original containers at 5°C up to 30°C
- Avoid mixing with other coatings or washing water.
- After opening use as soon as possible
- Storage may cause a change in viscosity. We recommend to check the viscosity and adjust - if necessary - with water.

Safety instructions

- Clean immediately with water if the coating comes into contact with skin or eyes.
- Please consider also the information given in the safety data sheet.

Environmental recommendation

- Do not allow coatings to get into water or canalisation.
- Product residues must be disposed professionally according to effective regulations.
- Please consider also the information given in the safety data sheet.

Please be advised

- 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 do not release from own tests and examinations in customer-specific circumstances. Information about slip angle and heat resistance are based on internal examinations and the mentioned values can differ from the practice. A correspondent quality agreement can be made if a specification is requested.
- We reserve the right to change product characteristics because of 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.
- This data sheet does not claim to be complete.