

## Technical Datasheet

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### TerraWet® Barrier Coating G 9/428 FoodSafe

#### Coating description

Water based barrier coating with temporary barrier against oil, fat and water. Has proven itself as a coating for the rearside of board.

#### Properties during coating process

Runnability	■ ■ ■ ■ ■ ■ ■ ■ □ □ □ □
Drying	■ ■ ■ ■ ■ ■ ■ ■ □ □ □ □
Crackling tolerance	■ ■ ■ ■ ■ ■ ■ ■ □ □ □ □
Foaming tolerance	■ ■ ■ ■ ■ ■ ■ ■ □ □ □ □
Two-sided coating	■ ■ ■ □ □ □ □ □ □ □

#### Properties in dry condition

Gloss	■ ■ ■ ■ ■ □ □ □ □ □
Scuff resistance	■ ■ ■ ■ ■ □ □ □ □ □
Wet block resistance	■ ■ ■ ■ □ □ □ □ □ □

#### Material characteristics

- Delivery viscosity: 40 sec. and 60 sec. (20°C, DIN 4mm cup)
- Solids: 37 - 42%
- Specific weight: 1,03 g/ml

#### Packaging unit

- 1.000 kg container
- 125 kg drum

#### Field of application

##### Application

- Sheet-fed offset, coating unit (chamber doctor blade or two-rollers)
- Gravure printing
- Drying: hot air, IR reduced
- wet-in-wet
- wet-on-dry

##### Substrates

- coated paper
- coated board

#### Printing products

- folding box, food
- folding box, sweets
- fast food packaging

#### 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.
- Please pay attention that a direct contact of a printed area to food stuff isn't permissible even if the printing ink is overcoated. A water based coating isn't equivalent to a PE coating.

#### Processing recommendations

- Recommended coating application: 4 - 8 g/m<sup>2</sup>/wet
- Stir before use
- We recommend to check the viscosity and to adjust it with water if necessary.
- Viscosity for processing in gravure printing: 15 - 20 sec. (dilution with water : ethanol - 3 : 1)
- Please use printing inks suitable for coating
- 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.
- Using non-absorbent substrates and / or slowly absorbent printing inks, we recommend to plan for the corresponding drying times.
- The coating is principally glueable (please test).

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- We recommend to omit adhesive straps.
- There must be a suitability for waterbased coating if anti-set-off powder is used (do not use mineral powder).
- Not suitable for the two-sided coating
- Recommended pile temperature: not > 30°C
- 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 full profile of characteristics of the coating film is available after complete drying.
- In order to guarantee a fast and complete drying, we recommend a sufficient airing of the sheets.

#### Cleaning

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

#### Storage

- Minimum shelf-life from date of dispatch 12 months
- Applies to closed original containers at 5°C up to 30°C
- After opening use as soon as possible
- Protect from frost, heat and sun exposure
- A viscosity increase is possible if the coating is stored incorrectly or for a longer period of time.
- Avoid mixing with other coatings or washing 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.