

## Technical Datasheet

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### TerraWet® Gloss Coating G 9/640 AS FoodSafe

#### Product description

Water based gloss coating with excellent drying and a 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 150°C
- Slip angle: 16° - 22°

#### Performance during further processing

Counter glueing	
Hot foil stamping	
UV varnishing	
Foil lamination	

#### Material characteristics

- Delivery viscosity: 40 sec., 45 sec. and 60 sec. (20°C, DIN 4 mm cup)
- Solids: 37 - 42%
- Specific weight: 1,03 g/ml

#### Packaging unit

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

#### Special properties

- Temporary barrier against fat and water

#### Field of application

##### Application

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

##### Substrates

- coated paper
- coated board
- metallized substrates
- rearside PE-coated board
- aluminium foil laminated substrates

##### Printing products

- folding box, food
- folding box, cosmetics
- folding box, pharmaceuticals
- folding box, cigarettes
- displays
- labels
- multipacks
- outer packaging
- frozen food packaging
- detergent packaging
- 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

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incumbent on the responsibility of the one who brings the packaging into circulation.

#### Processing recommendations

- Recommended coating application: 3,5 - 5 g/m<sup>2</sup>/ wet
- Stir before use!  
Mechanical stirring is recommended.
- 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.
- 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.
- There must be a sufficient hardening of the overall system substrate-printing ink-coating before further processing which should be checked in the process.
- The full profile of characteristics of the coating film is available after complete drying.
- 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
- 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

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sheet, we only assume liability after having examined the respective different conditions.

- This data sheet does not claim to be complete.