

## Technical Datasheet

### TERRAWET Gloss Coating G 9/378 FoodSafe-040



21.01.2021

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#### Product description

Water-based gloss coating with a fast drying, a high wet block resistance and suitable for a very wide range of applications. The product has been ToySafe® certified. It is free of bisphenol A, heavy metals, benzophenone and plasticisers. It is compliant with applicable norms, guidelines and ordinances for toy safety. Moreover, the coating has been FoodSafe certified. It is low migration (global migration limit < 60 mg/kg, EU cube model), compliant with the Swiss Ordinance (SR 817.023.21) and can be applied in the direct contact to dry and fat-including foodstuffs.

This product has been assessed against the criteria of the Material Health category in the Cradle to Cradle Certified™ Product Standard and was awarded a Gold level Material Health Certificate by the Cradle to Cradle Products Innovation Institute.

#### Material characteristics

- Viscosity: 45 sec. (20°C, DIN 4 mm cup)
- Viscosity: 40 sec. (20°C, DIN 4 mm cup)
- Viscosity: 60 sec. (20°C, DIN 4 mm cup)


#### Special properties

- Low odor

#### Application (End Uses)

- Commercial (Brochures)
- Folded boxes (Other non-food, Cap boxes (tobacco), Food indirect, Detergent packaging, Food direct, Dry foodstuff packaging, Tobacco, Beverages, Sweets, Toys)
- Corrugated (Displays)

#### Properties

	
Gloss	■ ■ ■ ■ ■ ■ ■ ■ ■ ■ □ □
Scuff resistance	■ ■ ■ ■ ■ ■ ■ ■ ■ ■ □
Hot foil stamping	■ ■ ■ ■ ■ ■ ■ ■ ■ ■ □
Crackling tolerance	■ ■ ■ ■ ■ ■ ■ ■ ■ ■ □ □
Foaming tolerance	■ ■ ■ ■ ■ ■ ■ ■ ■ ■ □
Drying	■ ■ ■ ■ ■ ■ ■ ■ ■ ■ □ □
Two-sided coating	■ ■ ■ ■ ■ ■ ■ ■ ■ ■ □ □
Wet block resistance	■ ■ ■ ■ ■ ■ ■ ■ ■ ■ □
UV varnishing	■ ■ ■ ■ ■ ■ ■ □ □ □ □ □
Counter glueing	■ ■ ■ ■ ■ ■ ■ ■ ■ ■ □
Slip angle	18° - 22°
Foil lamination	■ ■ ■ ■ ■ □ □ □ □ □
Heat resistance	Up to 120°C

#### Processes

- Sheet-fed offset, coating unit (chambered doctor blade or roller system)
- Sheet-fed offset, coating unit
- Wet-in-wet

#### Substrate

- Coated board
- Coated paper
- Rearside PE coated board
- Cast-coated substrates

#### Legislation assessment

- In principal the product can be used as directed and with a complete drying/curing for the

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coating of toy packagings. For information about the regulatory assessment of this product (e. g. guideline Richtlinie 2009/48/EG, DIN EN 71) 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

- In principal the product can be used as directed and with a complete drying for the coating of foodstuff packagings for the direct contact to the filling good. For information about the food legislation assessment of this product please contact our department for quality, environment and product safety. T: +49 (0) 5132 5009-140 mail to: QUM.ACTEGA.Terra@altana.com

#### Processing recommendations

- Please use printing inks/foil inks suitable for coating.
- Recommended coating application: 3,5 - 5 g/m<sup>2</sup>/wet
- 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.
- Recommended pile temperature: not > 35°C
- Using non-absorbent substrates and / or slowly absorbent printing inks, we recommend to plan for the corresponding drying times.
- There must be a suitability for water-based coating if anti-set-off powder is used (do not use mineral powder).
- We recommend to omit adhesive straps.
- The coating is suitable for

wrapping in foils XS and MS (no acrylic coated foil).

- 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.
- There must be a sufficient hardening of the overall system substrate-printing ink-coating before further processing which should be checked in the process.
- 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.
- Stir well before use!  
Mechanical stirring is recommended.

#### Cleaning instructions

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

#### Storage instructions

- Shelf-life 18 months
- Applies to closed original containers at 5°C up to 30°C.
- Avoid mixing with other coatings or washing water.
- Storage may cause a change in viscosity. We recommend to check the viscosity and adjust - if necessary - with water.
- Protect from frost, heat and sun exposure.

#### Disclaimer

- All information are technical

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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.
- 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.
- We reserve the right to change product characteristics due to technical progress, amendment of applicable law and mandatory production-related needs.