

Technical Datasheet

TERRAWET® Gloss Coating G 9/378 FoodSafe-060


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.

The coating belongs to our FoodSafe series. FoodSafe is our portfolio of water-based coatings for the direct food contact, as a minimum to dry and fat-including foodstuffs. These coatings have a low potential for migration and they do not contain undesirable constitutional components such as mineral oils (MOSH, MOAH), heavy metals or phthalates. They are compliant with the Framework Regulation EU No. 1935/2004 and the Plastics Directive EU No. 10/2011 (PIM). They also correspond to the Swiss Ordinance (SR 817.023.21) as well as to the Good Manufacturing Practice Regulation (EC) No. 2023/2006.

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.







Properties

Gloss	
Scuff resistance	
Hot foil stamping	
Crackling tolerance	
Foaming tolerance	



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Drying	
Two-sided coating	
Wet block resistance	
UV varnishing	
Counter glueing	
Slip angle	18° - 22°
Foil lamination	
Heat resistance	Up to 120°C

Material characteristics

- Viscosity: 60 sec. (20°C, DIN 4 mm cup)
- Viscosity: 45 sec. (20°C, DIN 4 mm cup)
- Viscosity: 40 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 packagings, Tobacco, Beverages, Sweets, Toys)

Processes

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

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Substrate

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

Legislation assessment

- In principal the product can be used as directed and with a complete drying for the coating in direct contact to designated foodstuff. 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
- In principal the product can be used as directed and with a complete drying/curing for the 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 5009-140mail to: QUM.ACTEGA.Terra@altana.com

Processing recommendations

- The coating is suitable for wrapping in foils XS and MS (no acrylic coated foil).
- Recommended coating application: 3,5 - 5 g/m²/wet
- 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.

- Please use printing inks/foil inks suitable for coating.
- 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
- There must be a sufficient hardening of the overall system substrate-printing ink-coating before further processing which should be checked in the process.
- There must be a suitability for water-based coating if anti-set-off powder is used (do not use mineral powder).
- 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.
- Stir well before use!
Mechanical stirring is recommended.
- 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.

Cleaning instructions

- Please clean machines and

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tools immediately with water. Dried coating residues can be removed with TERRAWET Clean Cleaning Agent G 12/181.

intended to be made under different conditions than those specified in this sheet, we only assume liability after having examined the respective different conditions.

Storage instructions

- Avoid mixing with other coatings or washing water.
- Applies to closed original containers at 5°C up to 30°C.
- 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.
- Shelf-life 18 months

Disclaimer

- We reserve the right to change product characteristics due to technical progress, amendment of applicable law and mandatory production-related needs.
- 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.
- This data sheet does not claim to be complete.
- All information provided on this product (in this sheet or elsewhere) are made to the best of our knowledge.
- If an application is