

Technical Datasheet

**TERRAWET Matt Coating G 9/56 M
 FoodSafe-040**



08.12.2021

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Heat resistance Up to 180°C

Product description

Water-based matt coating with universal application possibilities. Moreover, 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.

Material characteristics

- Viscosity: 40 sec. (20°C, DIN 4 mm cup)
- Viscosity: 50 sec. (20°C, DIN 4 mm cup)

Special properties

- Especially good anti-curling behaviour
- Listed in the Sony Green Book (Sony Green Partner)
- Laser printable

Application (End Uses)

- Wet glue (Other non-food, Food indirect, Beverages)
- Commercial (Brochures)
- Sachets, pouches & bags (Food indirect, Sac packaging)
- Folded boxes (Other non-food, Cap boxes (tobacco), Food indirect, Food direct, Dry foodstuff packagings, Tobacco, Microwave packaging, Sweets, Personal Care, Pharma)
- Corrugated (Displays)

Processes

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

Substrate

- Cast-coated substrates
- Coated paper
- PVC, PP, PE, PET foils etc.
- Coated board
- Metallized substrates
- Aluminum foil laminated substrates

Properties

Gloss	■ ■ ■ □ □ □ □ □ □ □ □
Scuff resistance	■ ■ ■ ■ ■ ■ ■ ■ □ □
Hot foil stamping	■ ■ ■ ■ ■ ■ ■ ■ □ □
Crackling tolerance	■ ■ ■ ■ ■ ■ ■ ■ ■ ■
Foaming tolerance	■ ■ ■ ■ ■ ■ ■ ■ □ □
Drying	■ ■ ■ ■ ■ ■ ■ ■ □ □
Two-sided coating	■ ■ ■ ■ ■ ■ ■ ■ ■ ■
Wet block resistance	■ ■ ■ ■ ■ ■ ■ ■ ■ ■
UV varnishing	■ ■ ■ ■ ■ ■ ■ □ □ □
Counter glueing	■ ■ ■ ■ ■ ■ ■ ■ □ □
Slip angle	20° - 25°
Foil lamination	■ ■ ■ ■ ■ □ □ □ □ □

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- Rearside PE coated board

Legislation assessment

- 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

- 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.
- Recommended pile temperature: not > 35°C
- We recommend to omit adhesive straps.
- The coating is suitable for wrapping in foils XS and MS (no acrylic coated foil).
- 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.
- 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 suitability for water-based 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.
- Please use printing inks/foil inks suitable for coating.
- Stir well before use!
Mechanical stirring is recommended.
- Recommended coating application: 3,5 - 5 g/m²/wet
- In order to guarantee a fast and complete drying, we recommend a sufficient airing of the sheets.

Cleaning instructions

- Please clean machines and tools immediately with water. Dried coating residues can be removed with TERRAWET Clean Cleaning Agent G 12/181.

Storage instructions

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

Disclaimer

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

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- 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.
- 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.