

Technical Datasheet

TERRAWET Matt Coating G 9/99 dull matt FoodSafe-040



23.09.2021

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Product description

Water-based dull matt coating with a fast drying and a very high wet block resistance. 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: 60 sec. (20°C, DIN 4 mm cup)

Special properties

- Low odor

Application (End Uses)

- Folded boxes (Other non-food, Food indirect, Food direct, Dry foodstuff packagings, Sweets)
- Corrugated (Displays)

Processes

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


Substrate

- Coated paper
- Coated board
- 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

Properties

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

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to: QUM.ACTEGA.Terra@altana.com

Processing recommendations

- We recommend to omit adhesive straps.
- Using non-absorbent substrates and / or slowly absorbent printing inks, we recommend to plan for the corresponding drying times.
- The full profile of characteristics of the coating film is available after complete drying.
- There must be a suitability for water-based coating if anti-set-off powder is used (do not use mineral powder).
- Recommended coating application:
3,5 - 5 g/m²/wet
- Recommended pile temperature: not > 35°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.
- In order to guarantee a fast and complete drying, we recommend a sufficient airing of the sheets.
- Please use printing inks/foil inks suitable for coating.
- Stir well before use!
Mechanical stirring is recommended.
- 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.
- There must be a sufficient hardening of the overall system substrate-printing ink-coating before further processing which should be checked in the process.

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

- Applies to closed original containers at 5°C up to 30°C.
- Avoid mixing with other coatings or washing water.
- Protect from frost, heat and sun exposure.
- Storage may cause a change in viscosity. We recommend to check the viscosity and adjust - if necessary - with water.
- 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 provided on this product (in this sheet or elsewhere) are made to the best of our knowledge.
- 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 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-

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specific circumstances.

- This data sheet does not claim to be complete.