

Technical Data Sheet
TERRAWET Gloss Coating G 9/640-060 FoodSafe
for the direct contact with dry/fat-including food, Material Health Certificate (Gold)

Product Description

Water-based gloss coating with excellent drying and a very high wet block resistance. The product is suitable for the two-sided coating and counter glueing. It also offers a temporary barrier against fat and water.

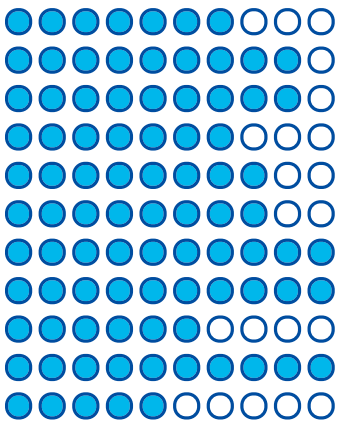
The coating belongs to our FoodSafe series.
FoodSafe is our portfolio of water-based coatings that are suitable for a direct contact to dry and fat-including foodstuffs according to the Framework Regulation EU No. 1935/2004.
These coatings have a low potential for migration and they do not contain undesirable constitutional components such as mineral oils (MOSH, MOAH), heavy metals or phthalates.

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.

General Information	
Product Type	Coatings
Product Technology	Water based
Field Of Application	Paperbased Packaging, Labels, Publication & Commercial, Sweets, Food direct, Other non-food, Food indirect, Beverages, Personal Care, Pharma, Frozen food packaging, Dry foodstuff packagings, Detergent packaging, CSD, Brochures
Properties	Temporary barrier against fat and water, Listed in the Sony Green Book (Sony Green Partner)
Optic	Glossy

Properties

- Gloss
- Drying
- Scuff Resistance
- Hot Foil Stamping
- Crackling Tolerance
- Foaming Tolerance
- Two Sided Coating
- Wet Block Resistance
- UV Varnishing
- Counter Glueing
- Foil Laminator



Product Characteristics			
Viscosity	• ~40 s (20°C, DIN 4 mm cup) • ~60 s (20°C, DIN 4 mm cup)		
Hot Foil Stamping	Yes	Glueability	No

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Product Characteristics			
Slip Angle	15° - 19°	Heat Resistance	Up to 180°C
Anti Penetration	No		

Substrate Recommendation

- Rearside PE coated board
- Aluminum foil laminated substrates
- Coated Paper
- Metallized substrates
- Coated Board

Application Method

- Wet-in-wet
- Gravure Printing
- Sheet-fed offset, coating unit
- Sheet-fed offset, coating unit (chambered doctor blade or roller system)
- Recommended coating application: 3,5 - 5 g/m²; wet
- 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.
- 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.
- We recommend to omit adhesive straps.
- The coating is suitable for wrapping in foils XS and MS (no acrylic coated foil).
- There must be a suitability for water-based coating if anti-set-off powder is used (do not use mineral powder).
- 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.
- Viscosity for processing in gravure printing: 15-20 sec. (dilution with water:ethanol 3:1).
- Please use printing inks/foil inks suitable for coating.
- 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.
- Using non-absorbent substrates and / or slowly absorbent printing inks, we recommend to plan for the corresponding drying times.
- Stir well before use! Mechanical stirring is recommended.

Storage Instructions

- Storage (Days): 550
- 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
- Applies to closed original containers at 5°C up to 30°C.

Cleaning Instructions

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

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Regulatory Compliance

- For information about the food legislation assessment of this product (e. g. demands on the Nestlé Standard St-80.001 „Printing Inks for Food Packaging" (version 04-2022) and the Swiss Ordinance (SR 817.023.21 - ordinance of the Swiss Confederation on materials & articles in contact with food) or FDA & California Proposition 65) we ask you to contact our department for quality, environment and product safety.
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Disclaimer

The characteristics contained herein constitute binding product specifications which we warrant provided the conditions and testing methods mentioned therein are used. Any other subjective or objective requirements concerning the products are excluded. Any information herein about suitability, use or application of the products is non-binding and does not constitute a commitment regarding the products' properties, use or application. We recommend that you test our products in preliminary trials to determine their suitability for your intended purpose prior to use. No warranties of merchantability or fitness for a particular purpose are made regarding any products mentioned herein and data or information set forth, or that such products, data or information may be used without infringing intellectual property rights of third parties.